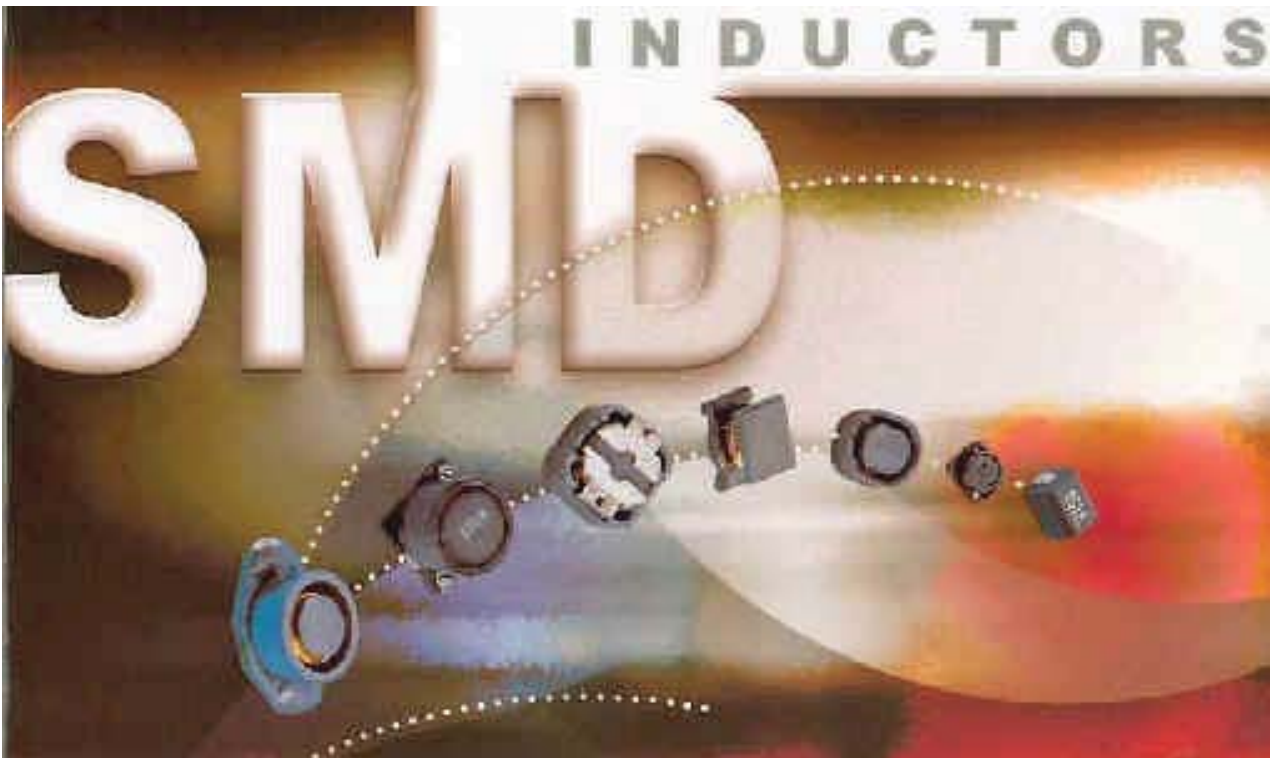




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FAST FIND

SMD Wire Wound Chip Inductors

SMI 453232 9-10



Description: Ferrite core wire-wound chip Inductors.
Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 0.1~1000 uH
Test Freq.: 25.2~0.796 MHz
SRF: 700~2.5 MHz
DCR: 0.44~50 Ohm
Current: 450~30 mA
Size: 4.5Lx3.2Wx3.2H mm
 0.18Lx0.13Wx0.13H in

SMI 322522 11-13



Description: Ferrite core wire-wound chip Inductors.
Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 0.1~220 uH
Test Freq.: 25.2~0.796 MHz
SRF: 700~7 MHz
DCR: 0.44~21 Ohm
Current: 450~50 mA
Size: 3.2Lx2.5Wx2.2H mm
 0.13Lx0.1Wx0.09H in

SHW 322522 14-15



Description: Ceramic core wire-wound chip Inductors.
Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 4.7~2200 uH
Test Freq.: 100~7.96 MHz
SRF: 6000~260 MHz
DCR: 0.06~3.8 Ohm
Current: 600~150 mA
Size: 1210(3225)

SHW 252016 16



Description: Ceramic core wire-wound chip Inductors.
Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 3.3~1000 uH
Test Freq.: 100~25 MHz
SRF: 6000~310 MHz
DCR: 0.06~3.6 Ohm
Current: 600~90 mA
Size: 1008(2520)

SHW 201212 17-18



Description: Ceramic core wire-wound chip Inductors.
Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 2.2~1200 nH
Test Freq.: 250~7.96 MHz
SRF: 6000~200 MHz
DCR: 0.06~2.26 Ohm
Current: 600~90 mA
Size: 0805(2012)

Power Choke Inductors

PC Choke 19-25



Description: SMD power Choke inductors PC0403, PC0504, PC0705, PC1004, PC1005
Applications: LCD inverter, DC/DC converter PC, Notebook, VTR power supply applications

Inductance: 1~68 uH
Test Freq.: 25.2 MHz~2.52 MHz
DCR: 0.049~1.17 Ohm
Current: 2.56~0.37 A
Size: 4.0Lx4.5Wx3.2H mm
 0.35Lx0.16Wx0.12H in

FAST FIND

Power Choke Inductors

SQH 453226 Choke 26-27



Description: SMD power Choke inductors
Applications: LCD inverter, DC/DC converter
PC, Notebook, VTR power supply,
communication applications

Inductance: 1-820 uH
SRF: 120-2.2 MHz
DCR: 0.2-20.5 Ohm
Current: 500-60mA
Size: 4.0Lx4.5Wx3.2H mm
0.35Lx0.16Wx0.12H in

PBD 644030 Choke 28



Description: SMD power Choke inductors
Applications: LCD inverter, DC/DC converter
PC, Notebook, VTR power supply,
communic utw applications

Inductance: 1-270 uH
SRF: 100 KHz
DCR: 0.072-7.523 Ohm
Current: 0.12-1.34 A
Size: 4.4Lx4.4Wx3.1H mm
0.17Lx0.17Wx0.12H in

PCD 131006 Choke 29



Description: SMD Power Choke inductors
High Current Mn-Zn Core
Applications: LCD inverter, DC/DC converter
Computers, LCD display, Power supply
Telecommunication and PDA palm

Inductance: 0.33-4.7 uH
Test Freq.: 100 KHz/0.1V
Peak IDC: 20-5.4 A
DCR: 2-18 m Ohm
Current: 16-4.8 A
Size: 14Lx11Wx7H mm
0.55Lx0.43Wx0.28H in

PCD 231608 Choke 30



Description: SMD Power Choke inductors
High Current Mn-Zn Core
Applications: LCD inverter, DC/DC converter
Computers, LCD display, Power supply
Telecommunication and PDA palm

Inductance: 0.78-10 uH
Test Freq.: 100 KHz/0.1V
Peak IDC: 30-10 A
DCR: 2.6-26 m Ohm
Current: 15-6.0 A
Size: 20Lx14Wx7H mm
0.78Lx0.55Wx0.28H in

Shielded Power Choke Inductors

PCRH 0630 Choke 31



Description: Shielded Power Choke inductors
Applications: DC/DC converter Computers
LCD display, Telecommunication Equipment

Inductance: 2.9-330 uH
Test Freq.: 1 KHz
DCR: 0.068-4.94 Ohm
Current: 1.94-0.19A
Size: 6L sq.x2.8H mm
0.24L sq.x0.11H in

PCRH 0732 Choke 32



Description: Shielded Power Choke inductors
Applications: DC/DC converter Computers
LCD display, Telecommunication Equipment

Inductance: 10-1000 uH
Test Freq.: 1 KHz/0.25V
DCR: 0.072-9.44 Ohm
Current: 1.68-0.16A
Size: 7L sq.x3.2H mm
0.27L sq.x0.13H in

FAST FIND

Shielded Power Choke Inductors

PCRH 125 Choke..... 33



Description: Shielded Power Choke inductors

Applications: DC/DC converter Computers
LCD display, Telecommunication Equipment

Inductance: 10~1000 uH
Test Freq.: 1 KHz
DCR: 0.034~1.629 Ohm
Current: 4.0~0.4A
Size: 12L sq.x5.0H mm
0.47L sq.x0.2H in

PCRH 127 Choke..... 34



Description: Shielded Power Choke inductors

Applications: DC/DC converter Computers
LCD display, Telecommunication Equipment

Inductance: 1.2~1000 uH
Test Freq.: 1 KHz
DCR: 0.007~1.82 Ohm
Current: 9.8~0.55A
Size: 12L sq.x7.0H mm
0.47L sq.x0.28H in

PCRH 4D18 Choke..... 35



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 1.0~47 uH
Test Freq.: 100 KHz/0.5V
DCR: 45~700 mOhm
Current: 1.72~0.29A
Size: 5.0 sq. x 2.0 H mm
0.19 sq. x 0.08 H in

PCRH 4D28 Choke..... 36



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 1.2~180 uH
Test Freq.: 100 KHz/0.5V
DCR: 42~1500 mOhm
Current: 2.56~0.22A
Size: 5.0 sq. x 3.1 H mm
0.19 sq. x 0.12 H in

PCRH 5D18 Choke..... 37



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 5.4~100 uH
Test Freq.: 10 KHz/0.5V
DCR: 76~1200 mOhm
Current: 1.55~0.33A
Size: 5.7 sq. x 2.0 H mm
0.23 sq. x 0.08 H in

PCRH 5D28 Choke..... 38



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 2.6~100 uH
Test Freq.: 10 KHz/0.5V
DCR: 32~630 mOhm
Current: 2.6~0.42A
Size: 5.7 sq. x 3.1 H mm
0.23 sq. x 0.12 H in

FAST FIND

Shielded Power Choke Inductors

PCRH 6D28 Choke 39



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 3.0~100 μ H
Test Freq.: 10 KHz/0.25V
DCR: 29~435 mOhm
Current: 2.9~0.50A
Size: 7.0 sq. x 3.0 H mm
0.28 sq. x 0.12 H in

PCRH 6D38 Choke 40



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 3.3~100 μ H
Test Freq.: 10 KHz/0.25V
DCR: 27~285 mOhm
Current: 3.5~0.65A
Size: 7.0 sq. x 4.0 H mm
0.28 sq. x 0.16 H in

PCRS 104 Choke 41



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 1.5~330 μ H
Test Freq.: 100 KHz/0.5V
DCR: 16~1000 mOhm
Current: 10~0.70A
Size: 10.4 sq. x 4.1 H mm
0.41 sq. x 0.16 H in

PBS 0732 Choke 42



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 3.3~1000 μ H
Test Freq.: 1 KHz/0.5V
DCR: 0.023~4.78 mOhm
Current: 1.9~0.13A
Size: 7.0 sq. x 3.2 H mm
0.28 sq. x 0.125 H in

PBS 0745 Choke 43



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 3.3~1000 μ H
Test Freq.: 1 KHz/0.5V
DCR: 0.024~2.74 mOhm
Current: 2.5~0.14A
Size: 7.0 sq. x 4.5 H mm
0.28 sq. x 0.177 H in

PBS 0780 Choke 44



Description: Shielded Power Choke inductors

Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 1.5~330 μ H
Test Freq.: 100 KHz/0.5V
DCR: 0.023~1.273 mOhm
Current: 4.0~0.32A
Size: 7.0 sq. x 8.1 H mm
0.28 sq. x 0.31 H in

Shielded Power Choke Inductors

PBS 1045 Choke 45



Description: Shielded Power Choke inductors
Applications: DC/DC converter, LCD Monitor, ADSL..
Telecommunication Products.

Inductance: 10~1500 uH
Test Freq.: 1 KHz/0.5V
DCR: 0.036~3.40 mOhm
Current: 3.0~0.22A
Size: 1.0 sq. x 4.5 H mm
0.04 sq. x 0.18 H in

SEP 126 (H,U) Choke 46-47



Description: Flat Wire Power Choke Inductor
Applications: DC/DC converter, High Current Loading

Inductance: 1.5~5.6 uH
Test Freq.: 100 KHz/0.5V
DCR: 2.5~13.5 mOhm
Current: 14~9.5A
Size: 12.9 sq.*6.5 H mm
0.51sq.*0.26 H in

STP 127 Choke 48-49



Description: Shielded Power Choke inductors
Applications: DC/DC converter Computers
LCD display, Telecommunication Equipment

Inductance: 1.2~220 uH
Test Freq.: 1 KHz
DCR: 8.3~310m Ohm
Current: 8.2~1.3A
Size: 12L sq.x7.0H mm
0.47L sq.x0.28H in

PCPS Choke 50



Description: Shielded Power Choke inductors
PCP139405
Applications: DC/DC converter, computers
LCD Display Telecommunication
Equipment

Inductance: 1~47 uH
DCR: 0.021~0.472 Ohm
Isat: 5.6~1.0A
Irms: 5.0~0.8A
SRF: 140~13 MHz
Size: 13Lx9.4Wx5.2 mm
0.51Lx0.37Wx0.2 in

PBP 064403 Choke 51-52



Description: Shielded Power Choke inductors
Applications: DC/DC converter, computers
LCD Display Telecommunication
Equipment

Inductance: 1.0~10000 uH
Test Freq.: 100 KHz
DCR: 0.04~32.8 Ohm
Current: 3~0.02A
Size: 7L sq.x3H mm
0.28L sq*0.12H in

SCL 908016 Choke 53



Description: Shielded Power Choke inductors
Applications: DC/DC converter, LCD Monitor, ADSL....
High Frwq. Telecommunication Products.

Inductance: 4.7~1000 uH
Test Freq.: 100 KHz/0.5V
DCR: 0.12~18 mOhm
SRF: 70-3 MHz
Current: 1.8~0.12A
Size: 9.14L*7.87W*1.55H mm
0.36L*0.39W*0.06H in

SDR 655312 Choke 54



Description: Power Choke Inductor
Applications: LCD display penal.

Inductance: 2.2~47 uH
Test Freq.: 1 KHz/0.5V
DCR: 0.117~1.656 mOhm
Current: 1.20~0.34A
Size: 6.5L*5.3W*1.25 H mm
0.26L*0.21W*0.05 H in

Multilayer Chip Inductors

MLI 160808 55-56



Description: Ferrite core, Multilayer chip Inductors.

Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 0.047~5.6 uH
Test Freq.: 50~4 MHz
SRF: 260~22 MHz
DCR: 0.3~1.55 Ohm
Current: 50~5mA
Size: 1608(0603)

MLI 201209 57



Description: Ferrite core, Multilayer chip Inductors.

Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 0.047~56 uH
Test Freq: 50~0.4 MHz
SRF: 320~7 MHz
DCR: 0.2~3.1 Ohm
Current: 300~4mA
Size: 2012(0805)

MLI 321611 58-60



Description: Ferrite core, Multilayer chip Inductors.

Applications: LC resonant circuits such as Oscillator and signal generators impedance matching, circuit isolation, RF filters, disk drives and computer peripheral, audio, video TV radio and telecommunication equipment.

Inductance: 0.047~56 uH
Test Freq: 50~0.4 MHz
SRF: 320~9.5 MHz
DCR: 0.15~3.8 Ohm
Current: 300~4mA
Size: 3216(1206)

MLB Type 61-68



Description: Ferrite core, Multilayer chip beads

Applications: Noise suppression in computer Peripherals, Telecommunication, Data Communications and other consumer Electronics.

Impedance: 7.0~2000 Ohm
Test Freq: 100 MHz
DCR: 0.1~2.1 Ohm
Current: 100~600 mA
Size: 4532(1812), 3225(1210), 3216(1206), 2012(0805), 1608(0603)

FB Type 69-70



Description: Ferrite core, SMD chip beads

Applications: Noise suppression in computer Peripherals, Telecommunication, Data Communications and other consumer Electronics.

Impedance: 35~90 Ohm
Test Freq: 100 MHz
DCR: 2.55~3.0 Ohm
Size: 4030(1612), 8530(3312), 7847(3018)

SMD Air Coil 71-72



Description: SMD Spring Wire air coil

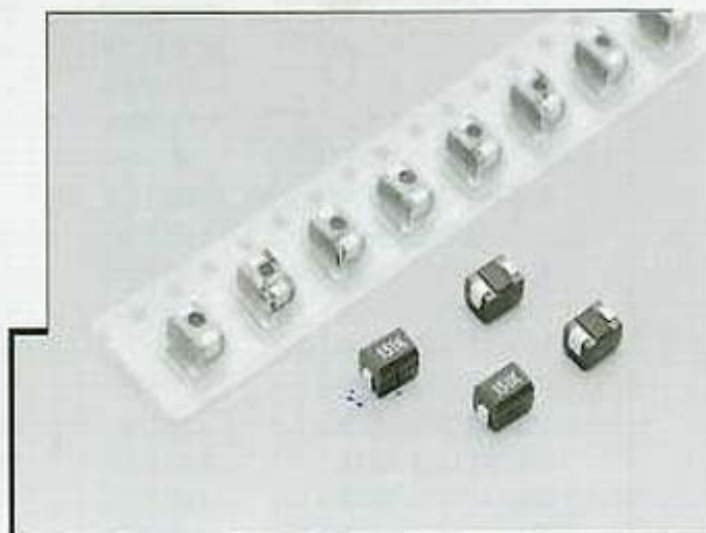
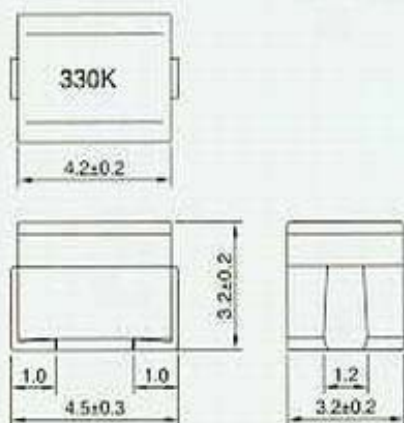
Applications: Noise suppression in computer Peripherals, Telecommunication, Data Communications and other consumer Electronics.

Inductance: 3.9~68 nH
Test Freq: 300 MHz
DCR: 2.6~42.2 Ohm
Size: 0805, 0603, 1012

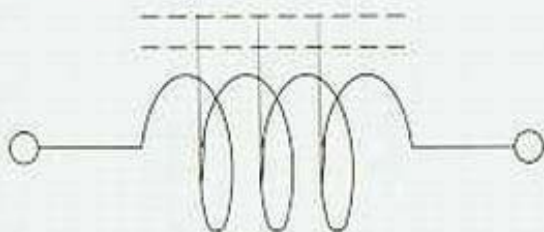
WOUND CHIP INDUCTOR

SMI 453232 SERIES (1812)

CONFIGURATION & CONSTRUCTION : (m/m)



SCHEMATIC DIAGRAM



MATERIALS

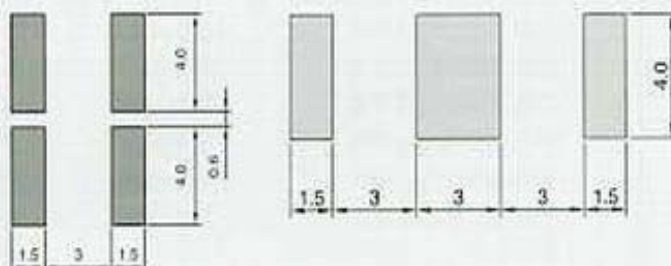
- CORE: FERRITE DR CORE
- WIRE: ENAMELLED COPPER WIRE
- TERMINAL: TINNED COPPER FLAT
- ENCAPSULATE: EPOXY NOVOLAC MOLDING COMPOUND

GENERAL CHARACTERISTICS

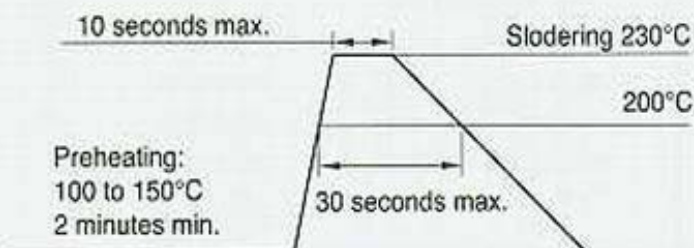
- TEMP. RISE: 20°C MAX
- AMBIENT TEMP.: 80°C MAX
- STORAGE TEMP.: -40°C ~ +100°C
- OPERATING TEMP.: -25°C ~ +100°C
- TERMINAL STRENGTH: 1.0 KG MIN
- RATED CURRENT:
CURRENT CAUSE INDUCTANCE DROP WITHIN 10%
- RESISTANCE TO SOLDER
HEAT: 260°C 10 SECS.
- RESISTANCE TO SOLVENT: PER MIL-STD-202F

PCB PATTERN

- PARALLEL
- SERIES



RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



- PACKAGE : 500PCS/REEL

WOUND CHIP INDUCTOR

ELECTRICAL SPECIFICATION

PART NO.	INDUCTANCE (μ H)	Q MIN.	LQ TEST FREQUENCY (MHz)	SELF-RESONANT FREQUENCY (MHz) MIN.	DC RESISTANCE (Ω) MAX.	RATED CURRENT (mA) MAX.
SMI-453232-R22M □ ○	0.22±20%	30	25.2	350	0.32	450
SMI-453232-R27M □ ○	0.27±20%	30	25.2	320	0.36	450
SMI-453232-R33M □ ○	0.33±20%	30	25.2	300	0.40	450
SMI-453232-R39M □ ○	0.39±20%	30	25.2	250	0.45	450
SMI-453232-R47M □ ○	0.47±20%	30	25.2	220	0.50	450
SMI-453232-R56M □ ○	0.56±20%	30	25.2	180	0.55	450
SMI-453232-R68M □ ○	0.68±20%	30	25.2	160	0.60	450
SMI-453232-R82M □ ○	0.82±20%	30	25.2	140	0.67	450
SMI-453232-1R0K □ ○	1.0±10%	50	7.96	100	0.50	460
SMI-453232-1R2K □ ○	1.2±10%	50	7.96	80	0.55	430
SMI-453232-1R5K □ ○	1.5±10%	50	7.96	70	0.60	410
SMI-453232-1R8K □ ○	1.8±10%	50	7.96	60	0.65	390
SMI-453232-2R2K □ ○	2.2±10%	50	7.96	55	0.70	380
SMI-453232-2R7K □ ○	2.7±10%	50	7.96	50	0.75	370
SMI-453232-3R3K □ ○	3.3±10%	50	7.96	45	0.80	355
SMI-453232-3R9K □ ○	3.9±10%	50	7.96	40	0.90	330
SMI-453232-4R7K □ ○	4.7±10%	50	7.96	35	1.00	315
SMI-453232-5R6K □ ○	5.6±10%	50	7.96	33	1.10	300
SMI-453232-6R8K □ ○	6.8±10%	50	7.96	27	1.20	285
SMI-453232-8R2K □ ○	8.2±10%	50	7.96	25	1.40	270
SMI-453232-100K □ ○	10.0±10%	50	2.52	20	1.60	260
SMI-453232-120K □ ○	12.0±10%	50	2.52	18	2.00	225
SMI-453232-150K □ ○	15.0±10%	50	2.52	17	2.50	200
SMI-453232-180K □ ○	18.0±10%	50	2.52	15	2.80	190
SMI-453232-220K □ ○	22.0±10%	50	2.52	13	3.20	180
SMI-453232-270K □ ○	27.0±10%	50	2.52	12	3.60	170
SMI-453232-330K □ ○	33.0±10%	50	2.52	11	4.00	160
SMI-453232-390K □ ○	39.0±10%	50	2.52	10	4.50	150
SMI-453232-470K □ ○	47.0±10%	50	2.52	10	5.00	140
SMI-453232-560K □ ○	56.0±10%	50	2.52	9.0	5.50	135
SMI-453232-680K □ ○	68.0±10%	50	2.52	9.0	6.00	130
SMI-453232-820K □ ○	82.0±10%	50	2.52	8.0	7.00	120
SMI-453232-101K □ ○	100±10%	40	2.52	8.0	8.00	110
SMI-453232-121K □ ○	120±10%	40	2.52	6.0	8.00	110
SMI-453232-151K □ ○	150±10%	40	2.52	5.0	9.00	105
SMI-453232-181K □ ○	180±10%	40	2.52	5.0	9.50	102
SMI-453232-221K □ ○	220±10%	40	2.52	4.0	12.0	100
SMI-453232-271K □ ○	270±10%	30	0.796	4.0	18.0	92
SMI-453232-331K □ ○	330±10%	30	0.796	3.5	20.0	85
SMI-453232-391K □ ○	390±10%	30	0.796	3.0	23.0	80
SMI-453232-471K □ ○	470±10%	30	0.796	3.0	26.0	62
SMI-453232-561K □ ○	560±10%	30	0.796	3.0	30.0	50
SMI-453232-681K □ ○	680±10%	30	0.796	3.0	40.0	50
SMI-453232-821K □ ○	820±10%	30	0.796	2.5	45.0	30
SMI-453232-102K □ ○	1000±10%	30	0.252	2.5	50.0	30

*1. R47 means 0.47 μ H or 470nH

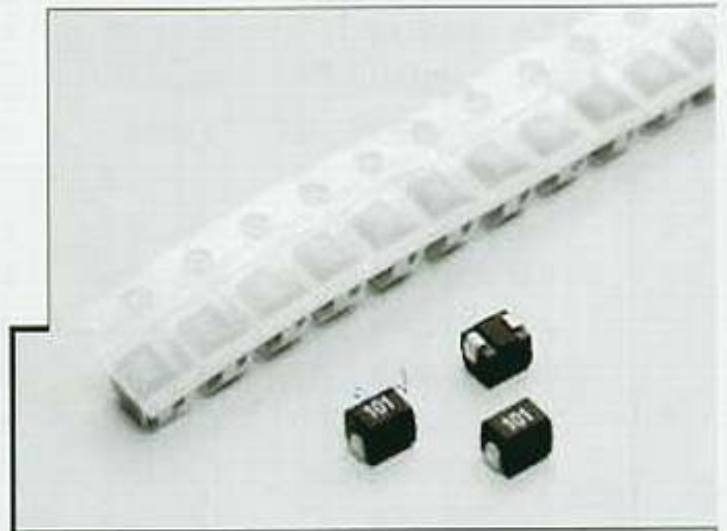
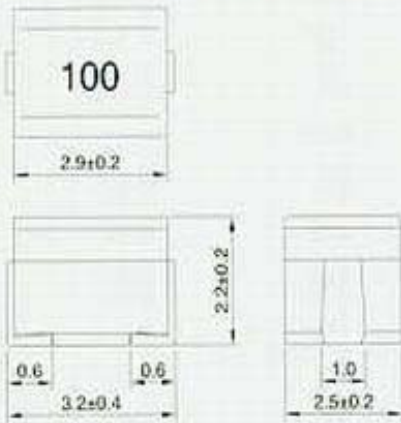
*2. □ : Means the inductance tolerance, M = \pm 20%, K = \pm 10%, J = \pm 5%

○ : Means packaging style

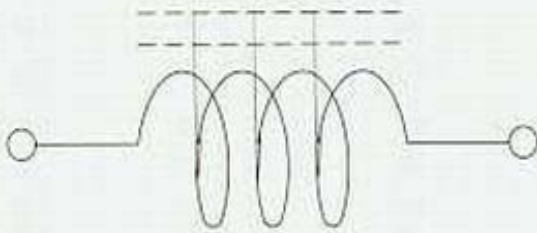
WOUND CHIP INDUCTOR

SMI 322522 SERIES (1210)

CONFIGURATION & CONSTRUCTION : (m/m)



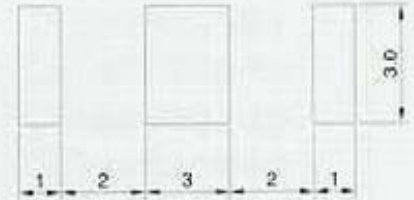
SCHEMATIC DIAGRAM



PCB PATTERN

● PARALLEL

● SERIES



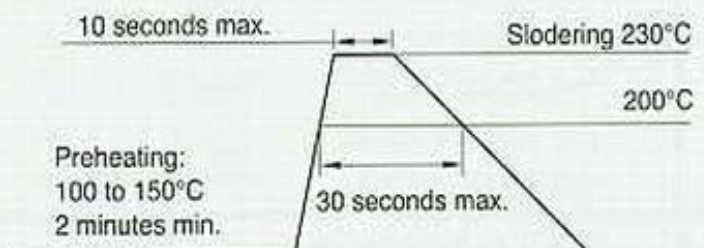
MATERIALS

- CORE: FERRITE DR CORE
- WIRE: ENAMELLED COPPER WIRE
- TERMINAL: TINNED COPPER FLAT
- ENCAPSULATE:
EPOXY NOVOLAC MOLDING COMPOUND

GENERAL CHARACTERISTICS

- TEMP. RISE: 20°C MAX
- AMBIENT TEMP.: 80°C MAX
- STORAGE TEMP.: -40°C ~ +100 °
- OPERATING TEMP.: -25°C ~ +100 °
- TERMINAL STRENGTH: 0.5 KG MIN
- RATED CURRENT:
CURRENT CAUSE INDUCTANCE DROP WITHIN 10%
- RESISTANCE TO SOLDER
HEAT : 260°C 10 SECS.
- RESISTANCE TO SOLVENT : PER MIL-STD-202F

RECOMMENDED SOLDERING CONDITIONS REFLOW SOLDERINGS



- PACKAGE : 1000PCS/REEL

WOUND CHIP INDUCTOR

ELECTRICAL SPECIFICATION

PART NO. *1 *2	INDUCTANCE (μ H)	Q MIN.	LQ TEST FREQUENCY (MHz)	SELF-RESONANT FREQUENCY (MHz) MIN.	DC RESISTANCE (Ω) MAX.	RATED CURRENT (mA) MAX.
SMI-322522-R22 □○	0.22 \pm 20%	30	25.2	350	0.32	450
SMI-322522-R27 □○	0.27 \pm 20%	30	25.2	320	0.36	450
SMI-322522-R33 □○	0.33 \pm 20%	30	25.2	300	0.40	450
SMI-322522-R39 □○	0.39 \pm 20%	30	25.2	250	0.45	450
SMI-322522-R47 □○	0.47 \pm 20%	30	25.2	220	0.50	450
SMI-322522-R56 □○	0.56 \pm 20%	30	25.2	180	0.55	450
SMI-322522-R68 □○	0.68 \pm 20%	30	25.2	160	0.60	450
SMI-322522-R82 □○	0.82 \pm 20%	30	25.2	140	0.65	450
SMI-322522-1R0 □○	1.00 \pm 20%	30	7.96	90	0.70	400
SMI-322522-1R2 □○	1.20 \pm 20%	30	7.96	85	0.75	390
SMI-322522-1R5 □○	1.50 \pm 20%	30	7.96	70	0.85	370
SMI-322522-1R8 □○	1.80 \pm 20%	30	7.96	60	0.90	350
SMI-322522-2R2 □○	2.20 \pm 20%	30	7.96	50	1.00	320
SMI-322522-2R7 □○	2.70 \pm 20%	30	7.96	45	1.10	290
SMI-322522-3R3 □○	3.30 \pm 20%	30	7.96	40	1.20	260
SMI-322522-3R9 □○	3.90 \pm 20%	30	7.96	37	1.30	250
SMI-322522-4R7 □○	4.70 \pm 20%	30	7.96	32	1.50	220
SMI-322522-5R6 □○	5.60 \pm 20%	30	7.96	30	1.60	200
SMI-322522-6R8 □○	6.80 \pm 20%	30	7.96	40	1.80	180
SMI-322522-8R2 □○	8.20 \pm 20%	30	7.96	35	2.00	170
SMI-322522-100 □○	10 \pm 20%	30	2.52	30	2.10	150
SMI-322522-120 □○	12 \pm 20%	30	2.52	20	2.50	140
SMI-322522-150 □○	15 \pm 20%	30	2.52	20	2.80	130
SMI-322522-180 □○	18 \pm 20%	30	2.52	20	3.30	120
SMI-322522-220 □○	22 \pm 20%	30	2.52	20	3.70	110
SMI-322522-270 □○	27 \pm 20%	30	2.52	20	5.00	80
SMI-322522-330 □○	33 \pm 20%	30	2.52	17	5.60	70
SMI-322522-390 □○	39 \pm 20%	30	2.52	16	6.40	65
SMI-322522-470 □○	47 \pm 20%	30	2.52	15	7.00	60
SMI-322522-560 □○	56 \pm 20%	30	2.52	13	8.00	55
SMI-322522-680 □○	68 \pm 20%	30	2.52	12	9.00	50
SMI-322522-820 □○	82 \pm 20%	30	2.52	11	10.00	45
SMI-322522-101 □○	100 \pm 20%	20	0.796	10	10.00	40

*1. R47 means 0.47 μ H or 470nH

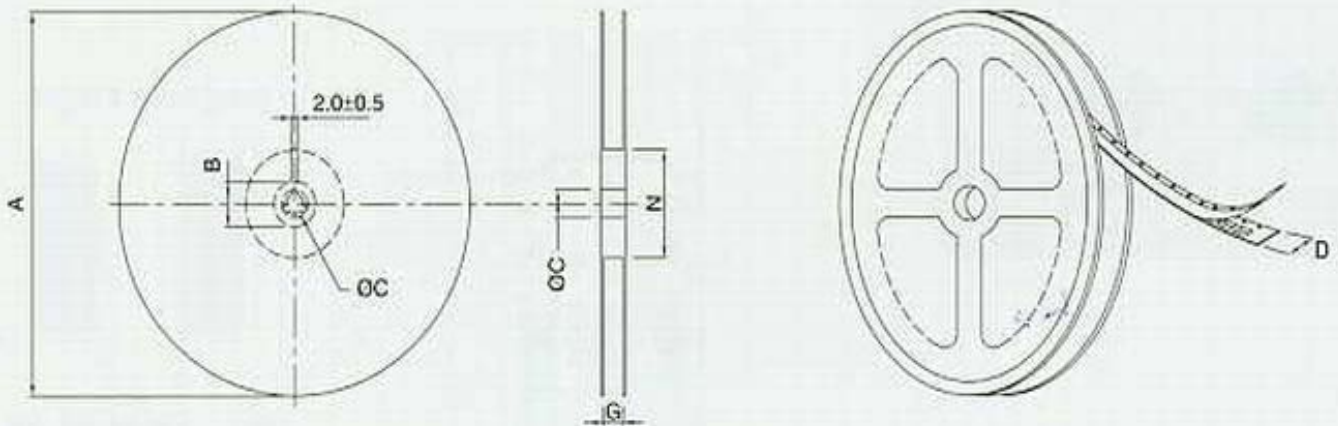
*2. □ : Means the inductance tolerance, M = \pm 20%, K = \pm 10%, J = \pm 5%

○ : Means packaging style

PACKAGING INFORMATION

FOR SMI TYPE INDUCTORS

CONFIGURATION



CARRIER TYPE WIDTH : D

DIMENSIONS

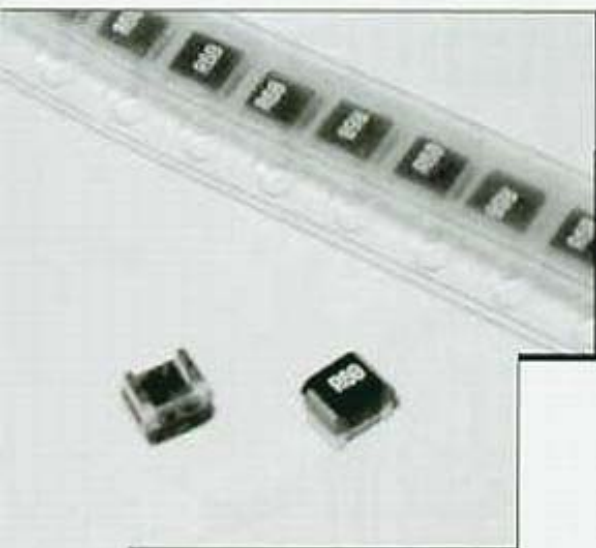
TYPE	Unit: m/m						
	A	B	C	D	G	N	T
8mm	178 ± 2	21 ± 0.8	13 ± 0.8	8	10+0	75	12.5
12mm	178 ± 2	21 ± 0.8	13 ± 0.8	12	14+0	75	16.5

Q'TY & G.W. PER PACKAGE

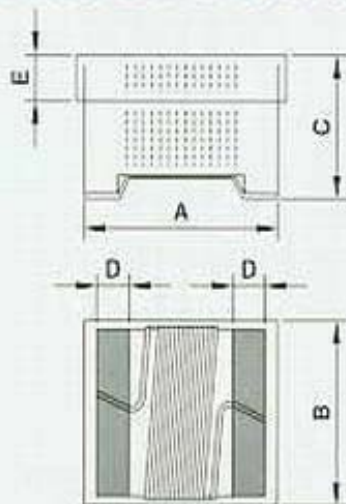
SERIES	PCS/REEL
SMI322522	1,000
SMI453232	500

WOUND CHIP INDUCTOR

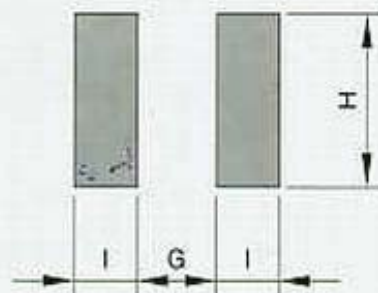
SHW 322522 SERIES (1210)
 SHW 252016 SERIES (1008)
 SHW 201212 SERIES (0805)



CONFIGURATION & CONSTRUCTION: (m/m)



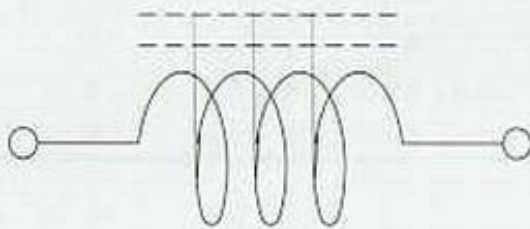
PCB PATTERN



DIMENSIONS: (m/m)

SERIES	A	B	C	D	E	G	H	I
SHW 322522	3.2 ± 0.2	2.5 ± 0.2	2.2 ± 0.2	0.5	0.5	2	2.2	1.15
SHW 252016	2.5 ± 0.2	2.0 ± 0.2	1.6 ± 0.2	0.5	0.5	1.20	1.8	1.3
SHW 201212	2.0 ± 0.2	1.2 ± 0.2	1.25 ± 0.2	0.5	0.5	1.00	1.2	0.7

SCHEMATIC DIAGRAM



MATERIALS

- CORE : CERAMIC
- WIRE : ENAMELLED COPPER WIRE
- TERMINAL : Mo/Mn+Ni+Au OR Pd/Pt/Ag+Ni+Sn/Pb
- ENCAPSULANT : EPOXY RESIN

GENERAL CHARACTERISTICS

- TEMP. RISE : 40 ° MAX
- RATED CURRENT : CURREN CAUSE INDUCTANCE DROP WITHIN 10% MAX.
- STORAGE TEMP. : -25°C ~ +85°C
- OPERATING TEMP. : -20°C ~ +80°C
- RESISTANCE TO SOLDER HEAT : 260°C 10 SECS.

WOUND CHIP INDUCTOR

ELECTRICAL SPECIFICATION

PART NO.	INDUCTANCE (nH)	Q MIN.	TEST FREQ.(MHz)		SRF(MHz)		RDC(Ω) MIN	IDC(mA) MAX.
			L	Q	MIN	MIN		
SHW322522-4N7 □	4.7	50	100	1000	6000	0.06	600	
SHW322522-5N6 □	5.6	50	100	1000	5500	0.08	600	
SHW322522-10N □	10	60	100	500	4000	0.06	600	
SHW322522-12N □	12	60	100	500	3400	0.06	600	
SHW322522-15N □	15	60	100	500	2200	0.06	600	
SHW322522-18N □	18	60	100	300	2800	0.06	600	
SHW322522-22N □	22	60	100	300	2300	0.08	600	
SHW322522-27N □	27	60	100	300	2000	0.08	600	
SHW322522-33N □	33	60	100	300	1800	0.08	600	
SHW322522-39N □	39	60	100	300	1800	0.08	600	
SHW322522-47N □	47	60	100	300	1600	0.08	600	
SHW322522-56N □	56	60	100	300	1500	0.10	600	
SHW322522-68N □	68	60	100	300	1300	0.10	600	
SHW322522-82N □	82	60	100	300	1200	0.10	600	
SHW322522-R10 □	100	60	100	300	1100	0.10	500	
SHW322522-R12 □	120	60	50	300	900	0.12	500	
SHW322522-R15 □	150	60	50	300	800	0.18	500	
SHW322522-R18 □	180	60	50	300	760	0.21	500	
SHW322522-R22 □	220	60	50	300	760	0.27	500	
SHW322522-R27 □	270	50	50	300	660	0.33	500	
SHW322522-R33 □	330	50	50	100	650	0.37	500	
SHW322522-R39 □	390	50	50	100	600	0.63	500	
SHW322522-R47 □	470	50	50	100	550	0.69	500	
SHW322522-R56 □	560	50	50	100	470	0.90	400	
SHW322522-R68 □	680	50	25	100	450	1.05	400	
SHW322522-R82 □	820	50	25	100	400	1.45	350	
SHW322522-1R0 □	1000	45	25	100	340	2.10	280	
SHW322522-1R2 □	1200	45	7.96	50	320	2.40	250	
SHW322522-1R5 □	1500	45	7.96	50	300	2.70	220	
SHW322522-1R8 □	1800	45	7.96	50	280	3.50	180	
SHW322522-2R2 □	2200	45	7.96	50	260	3.80	150	

*1. 47N means 47nH or 0.047 μ H

*2. □ : Means the inductance tolerance, M = $\pm 20\%$, K = $\pm 10\%$, J = $\pm 5\%$

*PACKAGE : 2000PCS/REEL

WOUND CHIP INDUCTOR

ELECTRICAL SPECIFICATION

PART NO.	INDUCTANCE (nH)	Q MIN.	TEST FREQ.(MHz)		SRF(MHz)		RDC(Ω) MIN	IDC(mA) MAX.
			L	Q	MIN	MIN		
SHW252016-3N3 □	3.3	50	100	1000	6000	0.06	600	
SHW252016-6N8 □	6.8	50	100	1000	5500	0.06	600	
SHW252016-8N2 □	8.2	50	100	1000	5500	0.06	600	
SHW252016-10N □	10	50	100	1000	4300	0.08	600	
SHW252016-12N □	12	60	100	500	3600	0.08	600	
SHW252016-15N □	15	60	100	500	2700	0.08	600	
SHW252016-18N □	18	60	100	350	2700	0.10	600	
SHW252016-22N □	22	60	100	350	2500	0.10	600	
SHW252016-27N □	27	60	100	350	1800	0.10	600	
SHW252016-33N □	33	60	100	350	1700	0.10	600	
SHW252016-39N □	39	60	100	350	1500	0.10	600	
SHW252016-47N □	47	60	100	350	1500	0.10	600	
SHW252016-56N □	56	60	100	350	1350	0.12	600	
SHW252016-68N □	68	60	100	350	1300	0.15	600	
SHW252016-82N □	82	60	100	350	1100	0.18	600	
SHW252016-R10 □	100	60	100	350	1100	0.18	500	
SHW252016-R12 □	120	50	25	100	950	0.20	500	
SHW252016-R15 □	150	50	25	100	880	0.22	500	
SHW252016-R18 □	180	50	25	100	800	0.33	500	
SHW252016-R22 □	220	45	25	100	730	0.45	500	
SHW252016-R27 □	270	45	25	100	650	0.75	500	
SHW252016-R33 □	330	45	25	100	570	0.90	500	
SHW252016-R39 □	390	45	25	100	530	1.20	400	
SHW252016-R47 □	470	45	25	100	480	1.30	400	
SHW252016-R56 □	560	45	25	100	430	1.45	300	
SHW252016-R68 □	680	45	25	100	380	2.45	200	
SHW252016-R75 □	750	45	25	100	360	2.60	150	
SHW252016-R82 □	820	45	25	100	350	2.75	150	
SHW252016-R91 □	910	45	25	100	330	3.25	90	
SHW252016-1R0 □	1000	35	25	50	310	3.60	90	

*1. 47N means 47nH or 0.047 μ H

*2. □ : Means the inductance tolerance. M = \pm 20%, K = \pm 10%, J = \pm 5%

*PACKAGE : 2000PCS/REEL

WOUND CHIP INDUCTOR

ELECTRICAL SPECIFICATION

PART NO.	INDUCTANCE (nH)	Q MIN.	TEST FREQ.(MHz)		SRF(MHz) MIN	RDC(Ω) MIN	IDC(mA) MAX.
			L	Q			
SHW201212-2N2 □	2.2	50	250	1000	6000	0.06	600
SHW201212-2N7 □	2.7	35	250	1000	6000	0.08	600
SHW201212-3N9 □	3.9	60	250	1000	6000	0.06	600
SHW201212-4N7 □	4.7	60	250	1000	5800	0.06	600
SHW201212-5N6 □	5.6	60	250	1000	5800	0.08	600
SHW201212-6N8 □	6.8	60	250	1000	5500	0.06	600
SHW201212-8N2 □	8.2	60	250	1000	5500	0.06	600
SHW201212-10N □	10	60	250	500	4800	0.08	600
SHW201212-12N □	12	60	250	500	4100	0.08	600
SHW201212-15N □	15	60	250	500	3600	0.08	600
SHW201212-18N □	18	60	250	500	3400	0.08	600
SHW201212-22N □	22	60	250	500	3300	0.10	600
SHW201212-27N □	27	60	250	500	2600	0.12	600
SHW201212-33N □	33	60	250	500	2400	0.15	500
SHW201212-39N □	39	60	250	500	2100	0.18	500
SHW201212-47N □	47	60	200	500	1700	0.15	500
SHW201212-56N □	56	60	200	500	1600	0.25	500
SHW201212-68N □	68	60	200	500	1450	0.27	500
SHW201212-82N □	82	60	150	500	1350	0.32	500
SHW201212-R10 □	100	60	150	500	1200	0.43	500
SHW201212-R12 □	120	50	150	250	1100	0.48	500
SHW201212-R15 □	150	50	100	250	950	0.67	400
SHW201212-R18 □	180	50	100	250	900	0.85	350
SHW201212-R22 □	220	50	100	250	860	1.10	300
SHW201212-R27 □	270	45	100	250	850	1.46	250
SHW201212-R33 □	330	45	100	250	800	1.65	200
SHW201212-R39 □	390	45	100	250	780	2.20	170

*1. 47N means 47nH or 0.047 μ H

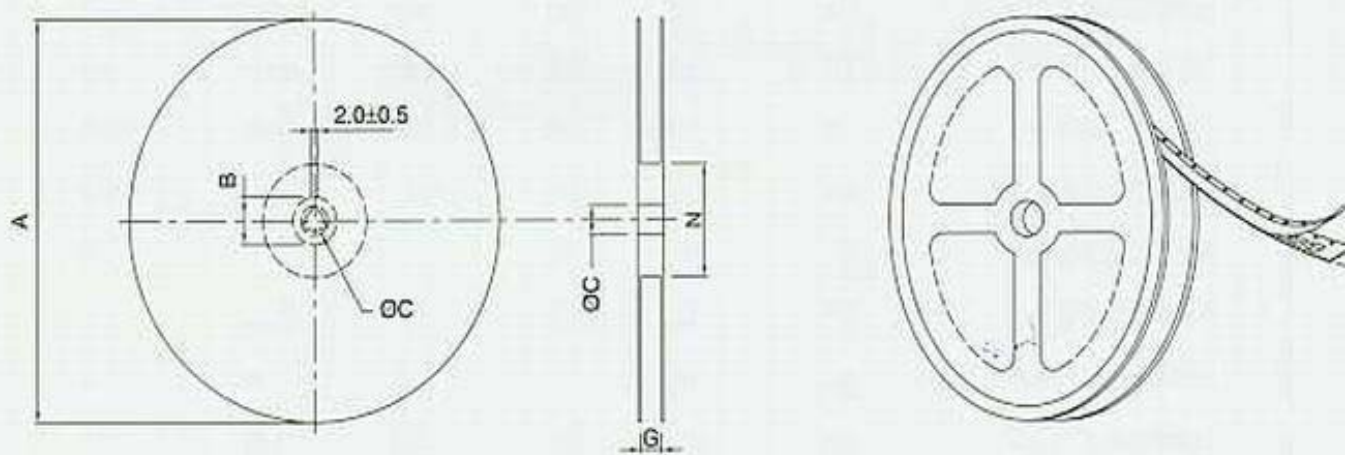
*PACKAGE : 2000PCS/REEL

*2. □ : Means the inductance tolerance. M = $\pm 20\%$, K = $\pm 10\%$, J = $\pm 5\%$

PACKAGING INFORMATION

FOR SHW TYPE INDUCTORS

CONFIGURATION



CARRIER TYPE WIDTH : D

DIMENSIONS

REEL	A	B	C	D	G	N	Unit: m/m
	178 ± 2	21 ± 0.8	13	8 ± 0.2	8	70min	

Q'TY & G.W. PER PACKAGE

SERIES	PCS/REEL
SHW322522	2,000
SHW252016	2,000
SHW201212	2,000

CHOKE COILS POWER CHIP PC TYPE

TYPE

DIMENSION

PC 0403: 1 μ H ~ 68 μ H



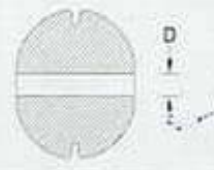
A: 4.5 \pm 0.3
B: 4.0 \pm 0.3
C: 3.2 \pm 0.3
D: 1.2 Type

PC 0504: 10 μ H ~ 220 μ H



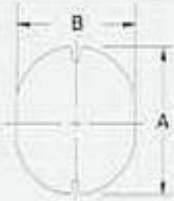
A: 5.8 \pm 0.3
B: 5.2 \pm 0.3
C: 4.5 \pm 0.4
D: 1.3 Type

PC 0703: 10 μ H ~ 330 μ H



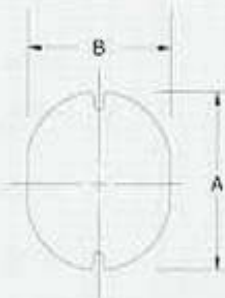
A: 7.8 \pm 0.3
B: 7.0 \pm 0.3
C: 3.5 \pm 0.5
D: 1.6 Type

PC 0705: 10 μ H ~ 470 μ H



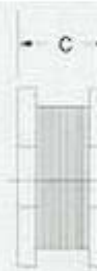
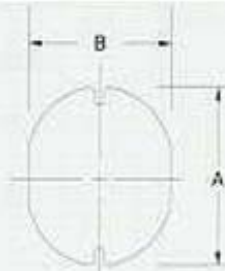
A: 7.8 \pm 0.3
B: 7.0 \pm 0.3
C: 5.0 \pm 0.5
D: 2.1 Type

PC 1004: 10 μ H ~ 560 μ H



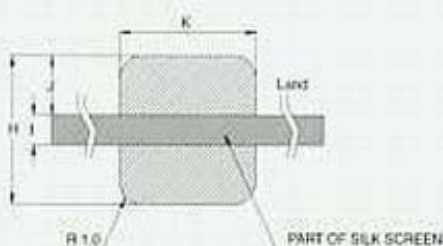
A: 10.0 \pm 0.3
B: 9.0 \pm 0.3
C: 4.0 \pm 0.5
D: 2.1 Type

PC 1005: 10 μ H ~ 820 μ H



A: 10.0 \pm 0.3
B: 9.0 \pm 0.3
C: 5.4 \pm 0.4
D: 2.1 Type

RECOMMENDED LAND PATTERN FOR SMT (m/m)



UNIT: mm

	H	I	J	K
PC 0403	5.0	1.5	1.75	4.5
PC 0504	6.0	1.7	2.15	5.5
PC 0703	8.0	2.0	3.0	7.5
PC 0705	8.0	2.0	3.0	7.5
PC 1004	10.0	2.5	3.75	9.5
PC 1005	10.0	2.5	3.75	9.5

CHOKE COILS POWER CHIP PC TYPE

ELECTRICAL SPECIFICATION

ITEM PC0403	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
1R0M	1.0±20%	0.049	2.56
1R4M	1.4±20%	0.057	2.52
1R8M	1.8±20%	0.064	1.95
2R2M	2.2±20%	0.072	1.75
2R7M	2.7±20%	0.079	1.58
3R3M	3.3±20%	0.087	1.44
3R9M	3.9±20%	0.094	1.33
4R7M	4.7±20%	0.109	1.15
5R6M	5.6±20%	0.126	0.99
6R8M	6.8±20%	0.132	0.93
8R2M	8.2±20%	0.147	0.84
100M	10±20%	0.182	1.04
120M	12±20%	0.210	0.94
150M	15±20%	0.235	0.85
180M	18±20%	0.338	0.74
220M	22±20%	0.378	0.68
270M	27±20%	0.522	0.62
330K	33±10%	0.540	0.56
390K	39±10%	0.587	0.52
470K	47±10%	0.844	0.44
560K	56±10%	0.937	0.42
680K	68±10%	1.117	0.37

ITEM PC0504	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
100M	10±20%	0.10	1.44
120M	12±20%	0.12	1.40
150M	15±20%	0.14	1.30
180M	18±20%	0.15	1.23
220M	22±20%	0.18	1.10
270M	27±20%	0.20	0.97
330L	33±15%	0.23	0.88
390L	39±15%	0.32	0.80
470L	47±15%	0.37	0.72
560K	56±10%	0.42	0.68
680K	68±10%	0.46	0.61
820K	82±10%	0.60	0.58
101K	100±10%	0.70	0.52
121K	120±10%	0.93	0.48
151K	150±10%	1.10	0.40
181K	180±10%	1.38	0.38
221K	220±10%	1.57	0.35

Package : PC0403-SERIES : -1500PCS/REEL

PC0504-SERIES : 1500PCS/REEL

Test Instrument : Agilent 4285 & 42841A, Zentech 3305 & 1320 or EQU

Test Frequency : 25.2 MHz~2.52 MHz & 1 KHz

CHOKER COILS POWER CHIP PC TYPE

ELECTRICAL SPECIFICATION

ITEM	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
100M	10±20%	0.08	1.44
120M	12±20%	0.09	1.39
150M	15±20%	0.10	1.24
180M	18±20%	0.11	1.12
220M	22±20%	0.13	1.07
270M	27±20%	0.15	0.94
330M	33±20%	0.17	0.85
390M	39±20%	0.22	0.74
470M	47±20%	0.25	0.68
560K	56±10%	0.28	0.64
680K	68±10%	0.33	0.59
820K	82±10%	0.41	0.54
101K	100±10%	0.48	0.51
121K	120±10%	0.54	0.49
151K	150±10%	0.75	0.40
181K	180±10%	1.02	0.36
221K	220±10%	1.20	0.31
271K	270±10%	1.31	0.29
331K	330±10%	1.50	0.28

ITEM	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
100K	10±10%	0.07	2.30
120K	12±10%	0.08	2.00
150K	15±10%	0.09	1.80
180K	18±10%	0.10	1.60
220K	22±10%	0.11	1.50
270K	27±10%	0.12	1.30
330K	33±10%	0.13	1.20
390K	39±10%	0.16	1.10
470K	47±10%	0.18	1.10
560K	56±10%	0.24	0.94
680K	68±10%	0.28	0.85
820K	82±10%	0.37	0.78
101K	100±10%	0.43	0.72
121K	120±10%	0.47	0.66
151K	150±10%	0.64	0.58
181K	180±10%	0.71	0.51
221K	220±10%	0.96	0.49
271K	270±10%	1.11	0.42
331K	330±10%	1.26	0.40
391K	390±10%	1.77	0.36
471K	470±10%	1.96	0.34

Test Instrument : Agilent 4285 & 42841A,
Zentech 3305 & 1320 or EQU

Test Frequency : 1 KHz, 2.52 MHz

Package : PC0703-SERIES : 1000PCS/REEL
PC0705-SERIES : 500PCS/REEL

CHOKES COILS POWER CHIP PC TYPE

ELECTRICAL SPECIFICATION

ITEM PC1004	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
100M	10±20%	0.05	2.38
120M	12±20%	0.06	2.13
150M	15±20%	0.07	1.87
180M	18±20%	0.08	1.73
220M	22±20%	0.09	1.60
270M	27±20%	0.10	1.44
330M	33±20%	0.12	1.26
390M	39±20%	0.15	1.20
470M	47±20%	0.17	1.10
560K	56±10%	0.20	1.01
680K	68±10%	0.22	0.91
820K	82±10%	0.25	0.85
101K	100±10%	0.34	0.74
121K	120±10%	0.40	0.69
151K	150±10%	0.54	0.61
181K	180±10%	0.62	0.56
221K	220±10%	0.72	0.53
271K	270±10%	0.95	0.45
331K	330±10%	1.10	0.42
391K	390±10%	1.24	0.38
471K	470±10%	1.53	0.35
561K	560±10%	1.90	0.32

ITEM PC1005	L (μH)	RDC MAX. (Ω)	RATED CURRENT (A) MAX.
100M	10±20%	0.06	2.60
120M	12±20%	0.07	2.45
150M	15±20%	0.08	2.27
180M	18±20%	0.09	2.15
220M	22±20%	0.10	1.95
270M	27±20%	0.11	1.76
330M	33±20%	0.12	1.50
390M	39±20%	0.14	1.37
470K	47±10%	0.17	1.28
560K	56±10%	0.19	1.17
680K	68±10%	0.22	1.11
820K	82±10%	0.25	1.00
101K	100±10%	0.35	0.97
121K	120±10%	0.40	0.89
151K	150±10%	0.47	0.78
181K	180±10%	0.63	0.72
221K	220±10%	0.73	0.66
271K	270±10%	0.97	0.57
331K	330±10%	1.15	0.52
391K	390±10%	1.30	0.48
471K	470±10%	1.48	0.42
561K	560±10%	1.90	0.33
681K	680±10%	2.25	0.28
821K	820±10%	2.50	0.24
102K	1000±10%	2.50	0.22

Test Instrument : Agilent 4285 & 42841A,
Zentech 3305 & 1320 or EQU

Test Frequency : 1 KHz, 2.52 MHz

Package : PC1004-SERIES : 500PCS/REEL
PC1005-SERIES : 500PCS/REEL

SMD CHOKE COIL PC TYPE

GENERAL CHARACTERISTICS

1. OPERATION TEMPERATURE :

-25°C~+70°C (COIL CONTAIN HEAT)

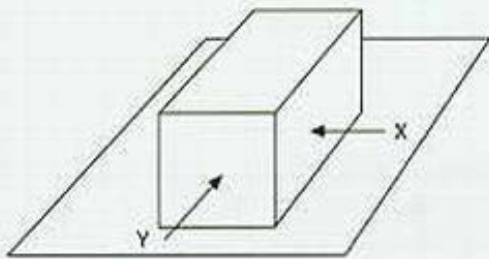
2. EXTERNAL APPEARANCE :

ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.

3. TERMINAL STRENGTH :

AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN THREE DIRECTIONS OF X, Y WITHSTANDING 14.7N (1.5 KGF) FOR 10 ± 2 SECONDS.

TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT BELOW)



4. ELECTRIC STRENGTH :

NO APPARENT AT 100 V D.C. FOR 1 MINUTE BETWEEN COIL-CORE.

5. INSULATING RESISTANCE :

OVER 100M AT 100V D.C. BETWEEN COIL-CORE.

6. INDUCTANCE TEMPERATURE COEFFICIENT :

$(0 \sim 1250) \times 10^{-6}/^{\circ}\text{C}$ (-25°C ~ +70°C)

7. HUMIDITY TEST :

INDUCTANCE DEVIATION WITHIN $\pm 2.0\%$

AFTER 96 HOURS IN 90 ~ 95% RH AT $40 \pm 2^{\circ}\text{C}$

AND 1 HRS DRYING UNDER NORMAL CONDITION.

8. VIBRATION TEST :

INDUCTANCE DEVIATION WITHIN $\pm 1.0\%$ AFTER VIBRATION FOR

1 HRS. IN EACH OF THREE ORIENTATION AT SWEEP VIBRATION

(10~55~10 Hz) WITH 1.5 mm P-P AMPLITUDE.

9. SHAKE TEST :

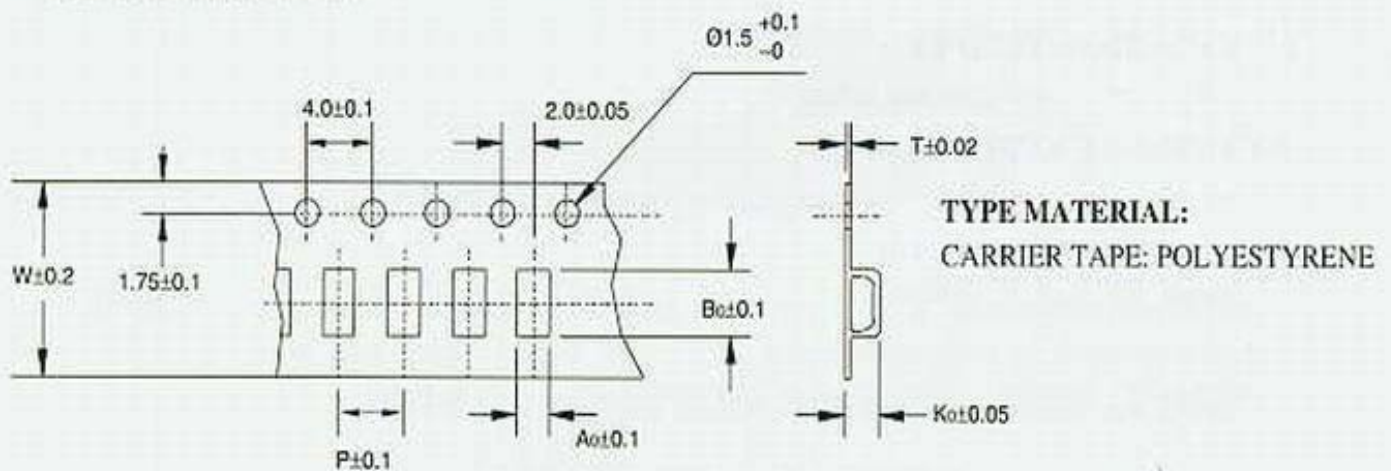
INDUCTANCE DEVIATION WITHIN $\pm 1.0\%$ AFTER DROP DOWN WITH 981

m/s^2 (100 G) SHAKE ATTITUDE UPON A RUBBER BLOCK METHOD

SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

PACKAGING FOR PC TYPE

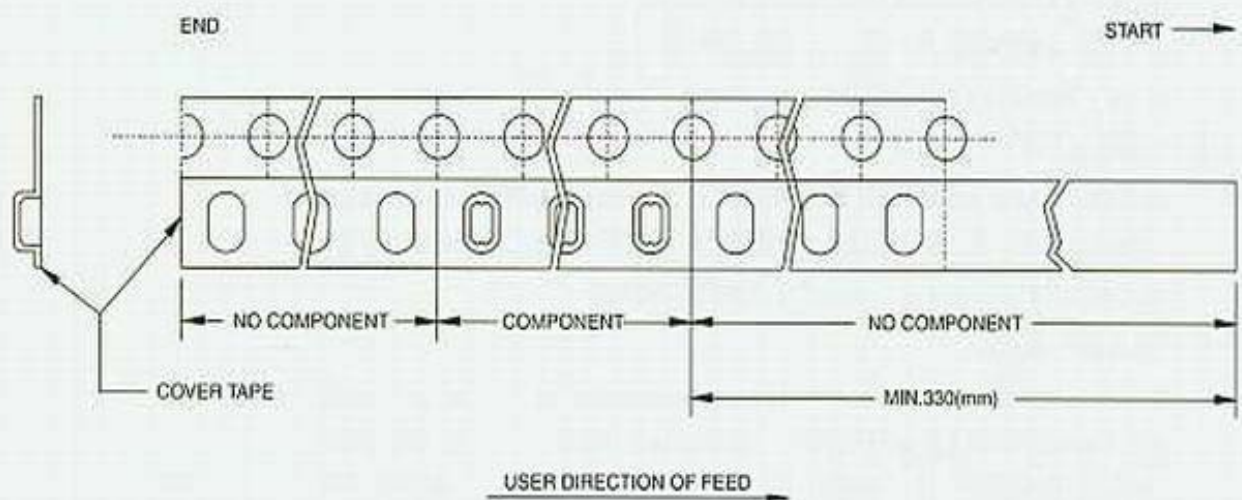
TAPE DIMENSIONS



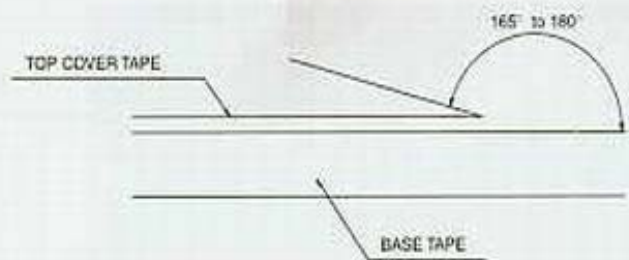
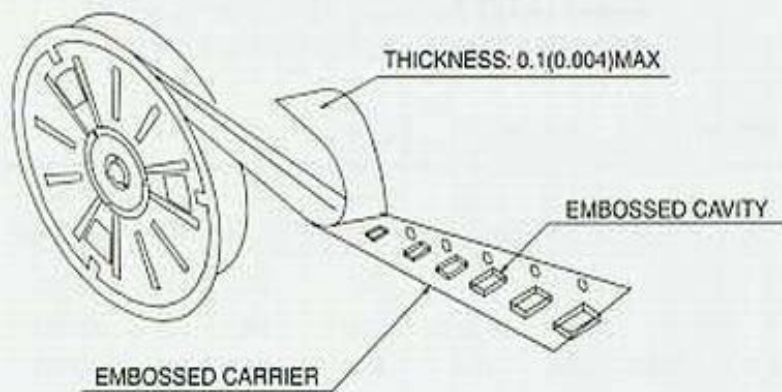
PACKAGING QUANTITY

Dimension: m/m

TYPE	A	B	W	P	T	CHIPS/REEL
PC 0403	4.3	4.8	12	8	3.70	1500
PC 0504	5.6	6.2	12	12	5.00	1500
PC 0703	7.5	8.3	16	12	4.00	1000
PC 0705	7.5	8.3	16	12	5.70	500
PC 1004	9.6	10.5	24	12	4.70	1000
PC 1005	9.6	10.5	24	12	6.00	500

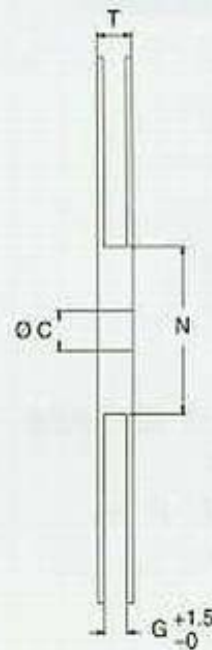
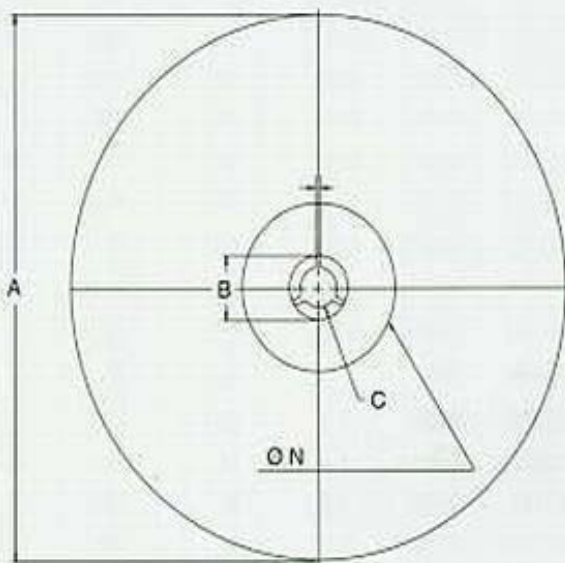


PACKAGING FOR PC TYPE



CARRIER TAPE REELS

MATERIAL: PAPER PLASTIC



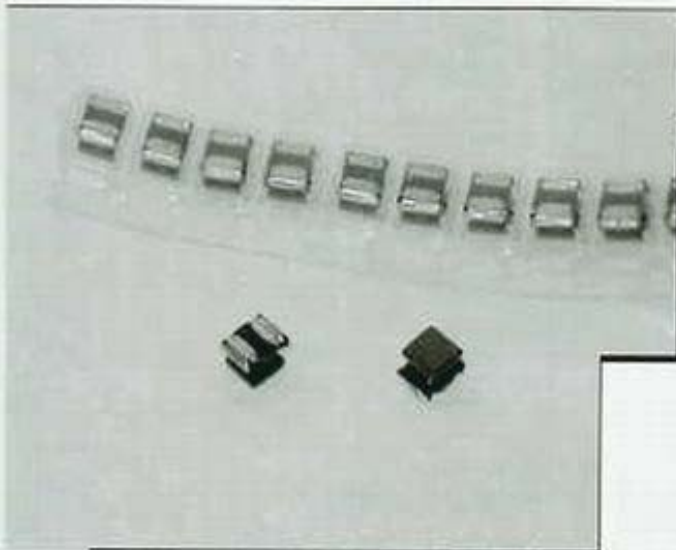
Dimension: m/m

TYPE	A	B	C	G	N	T
12mm	178	21.0±0.8	13.0±0.2	12.4	55	16.4
16mm	178	21.0±0.8	13.0±0.2	16.4	55	20.4
24mm	178	21.0±0.8	13.0±0.2	24.4	75	28.4
12mm	330	21.0±0.8	13.0±0.2	12.4	75	16.4
16mm	330	21.0±0.8	13.0±0.2	16.4	75	20.4
24mm	330	21.0±0.8	13.0±0.2	24.4	75	28.4

CHOKE COILS POWER CHIP

SQH 453226

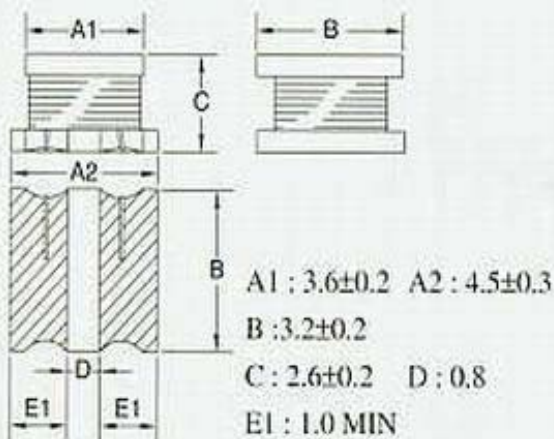
SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS



ELECTRICAL SPECIFICATION

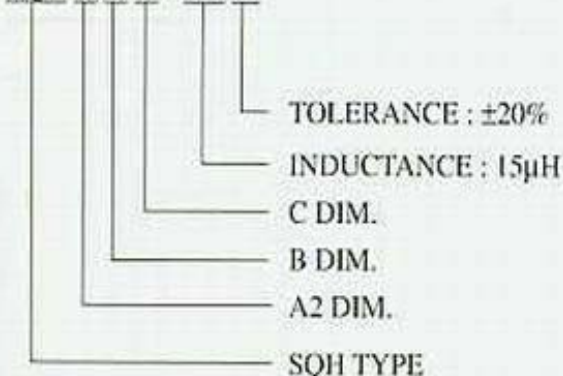
ITEM	L	L Test	DCR	SRF	IDC	Q	Q Test
SQH453226	(μH)	Freq.(MHz)	MAX.(Ω)	MIN.(MHz)	MAX.(mA)	(MIN)	Freq.(MHz)
1R0M	1.0 \pm 20%	1MHz	0.20	120	500	20	1MHz
1R2M	1.2 \pm 20%	1MHz	0.20	100	500	20	1MHz
1R5M	1.5 \pm 20%	1MHz	0.30	85	500	20	1MHz
1R8M	1.8 \pm 20%	1MHz	0.30	75	500	20	1MHz
2R2M	2.2 \pm 20%	1MHz	0.30	62	500	20	1MHz
2R7M	2.7 \pm 20%	1MHz	0.32	53	500	20	1MHz
3R3M	3.3 \pm 20%	1MHz	0.35	47	500	20	1MHz
3R9M	3.9 \pm 20%	1MHz	0.38	41	500	20	1MHz
4R7K	4.7 \pm 10%	1MHz	0.40	38	500	30	1MHz
5R6K	5.6 \pm 10%	1MHz	0.47	33	500	30	1MHz
6R8K	6.8 \pm 10%	1MHz	0.50	31	450	30	1MHz
8R2K	8.2 \pm 10%	1MHz	0.56	27	450	30	1MHz
100K	10 \pm 10%	1MHz	0.56	23	400	35	1MHz
120K	12 \pm 10%	1MHz	0.62	21	380	35	1MHz
150K	15 \pm 10%	1MHz	0.73	19	360	35	1MHz
180K	18 \pm 10%	1MHz	0.82	17	340	35	1MHz
220K	22 \pm 10%	1MHz	0.94	15	320	35	1MHz
270K	27 \pm 10%	1MHz	1.1	14	300	35	1MHz
330K	33 \pm 10%	1MHz	1.2	12	270	35	1MHz
390K	39 \pm 10%	1MHz	1.4	11	240	35	1MHz
470K	47 \pm 10%	1MHz	1.5	10	220	35	1MHz
560K	56 \pm 10%	1MHz	1.7	9.3	200	35	1MHz
680K	68 \pm 10%	1MHz	1.9	8.4	180	35	1MHz
820K	82 \pm 10%	1MHz	2.2	7.5	170	35	1MHz
101K	100 \pm 10%	1MHz	2.5	6.8	160	40	796KHz
121K	120 \pm 10%	1MHz	3.0	6.2	150	40	796KHz
151K	150 \pm 10%	1MHz	3.7	5.5	130	40	796KHz
181K	180 \pm 10%	1MHz	4.5	5.0	120	40	796KHz
221K	220 \pm 10%	1MHz	5.4	4.5	110	40	796KHz
271K	270 \pm 10%	1MHz	6.8	4.0	100	40	796KHz
331K	330 \pm 10%	1MHz	8.2	3.6	95	40	796KHz
391K	390 \pm 10%	1MHz	9.7	3.3	90	40	796KHz
471K	470 \pm 10%	1KHz	11.8	3.0	80	40	796KHz
561K	560 \pm 10%	1KHz	14.5	2.7	70	40	796KHz
681K	680 \pm 10%	1KHz	17.0	2.5	65	40	796KHz
821K	820 \pm 10%	1KHz	20.5	2.2	60	40	796KHz

CONSTRUCTION (m/m)



COIL CODE

SQH 453226 -150 M

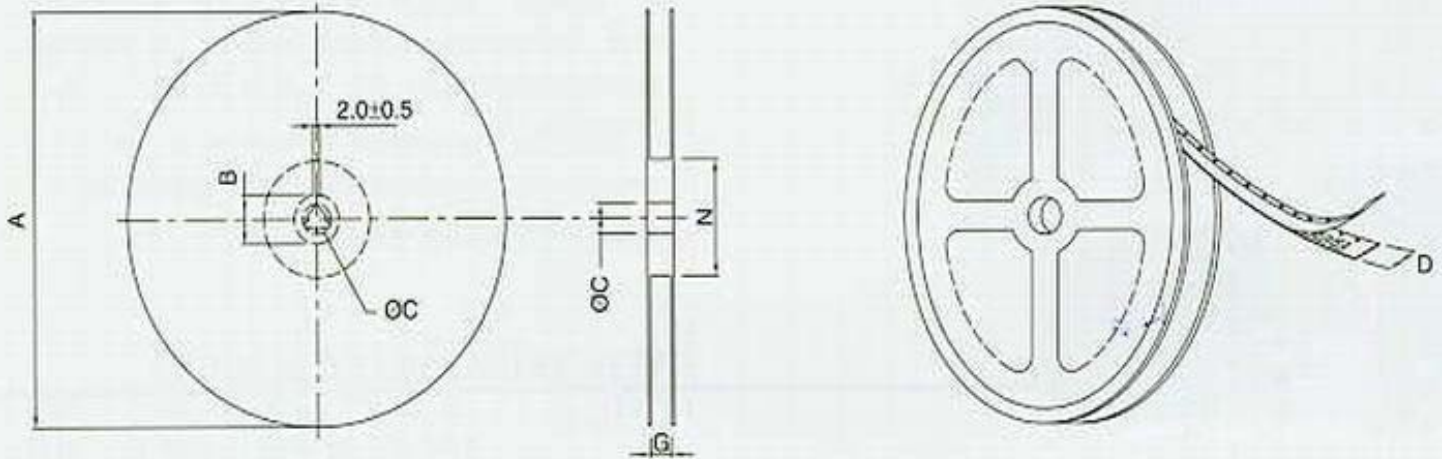


PACKAGE: 500PCS/REEL

PACKAGING INFORMATION

FOR SMI TYPE INDUCTORS

CONFIGURATION

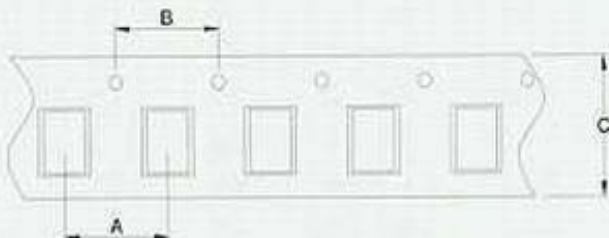


CARRIER TYPE WIDTH : D

DIMENSIONS

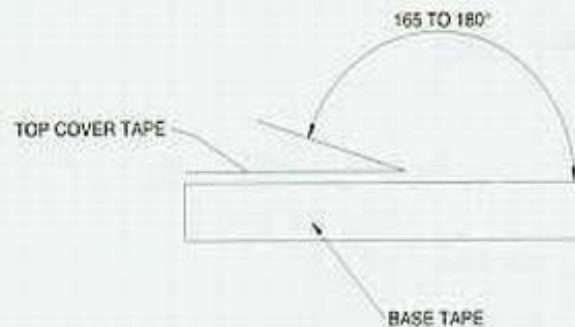
TYPE	Unit: m/m						
	A	B	C	D	G	N	T
SM1322522	178 ± 2	21 ± 0.8	13 ± 0.8	8	10+0	75	12.5
SM1453232	178 ± 2	21 ± 0.8	13 ± 0.8	12	14+0	75	16.5
SQH453226	178 ± 2	21 ± 0.8	13 ± 0.8	12	14+0	75	16.5

TAPE DIMENSIONS: (m/m)



TYPE	A	B	C
32-Series	4	4	8
45-Series	8	4	12

STRENGTH OF COVER TAPE



- THE FORCE FOR TEARING OFF COVER TAPE IS 10 TO 130 GRAMS IN ARROW DIRECTION.

CHOKE COILS POWER CHIP

PBD 644030

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

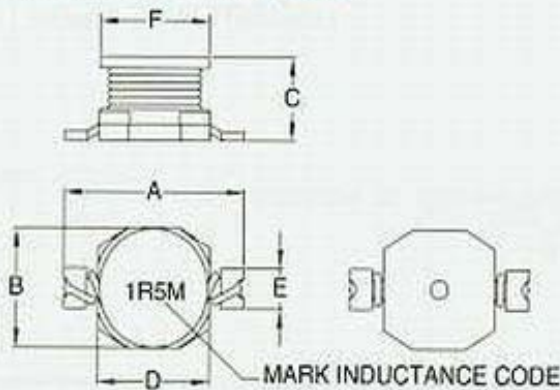
CHARACTERISTICS

1. Inductance is measured by LCR 101 or equivalent.
2. DC Resistance is measured by CDC 301A or equivalent.
3. Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller.
(Reference ambient temperature 20°C).

ELECTRICAL SPECIFICATION

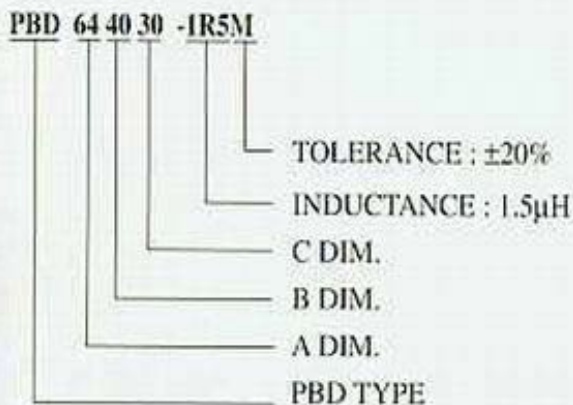
ITEM	L (μH)	TEST FREQ. (KHz)	IDC MAX. (A)	RDC MAX. (Ω)
PBD644030				
1R0M	1.0 ± 20%	100	1.34	0.072
1R5M	1.5 ± 20%	100	1.22	0.084
2R2M	2.2 ± 20%	100	1.08	0.108
3R3M	3.3 ± 20%	100	0.97	0.134
4R7M	4.7 ± 20%	100	0.91	0.160
6R8M	6.8 ± 20%	100	0.79	0.197
100M	10 ± 20%	100	0.63	0.330
120M	12 ± 20%	100	0.59	0.350
150M	15 ± 20%	100	0.56	0.400
180M	18 ± 20%	100	0.51	0.450
220M	22 ± 20%	100	0.47	0.534
270M	27 ± 20%	100	0.43	0.618
330M	33 ± 20%	100	0.37	0.903
390M	39 ± 20%	100	0.34	1.010
470M	47 ± 20%	100	0.29	1.355
560M	56 ± 20%	100	0.28	1.515
680M	68 ± 20%	100	0.26	1.713
820M	82 ± 20%	100	0.22	2.312
101M	100 ± 20%	100	0.21	2.640
121M	120 ± 20%	100	0.19	3.502
151M	150 ± 20%	100	0.17	4.132
181M	180 ± 20%	100	0.16	4.534
221M	220 ± 20%	100	0.13	6.646
271M	270 ± 20%	100	0.12	7.523

CONSTRUCTION (m/m)



A: 6.4±0.25 B: 4.0±0.25 C: 3.0 MAX
D: 3.9±0.25 E: 1.3±0.25 F: 3.8±0.25

COIL CODE



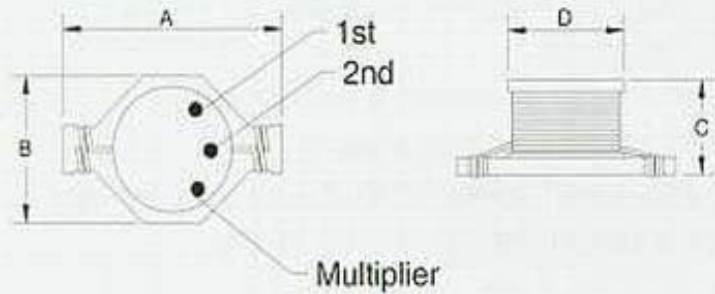
PCPACKAGE: 1000PCS/REEL

CHOKE COILS POWER CHIP

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

PCD 131006

CONSTRUCTION (m/m)



A: 13.21 MAX B: 9.91 MAX
C: 6.35 MAX D: 8.38 MAX

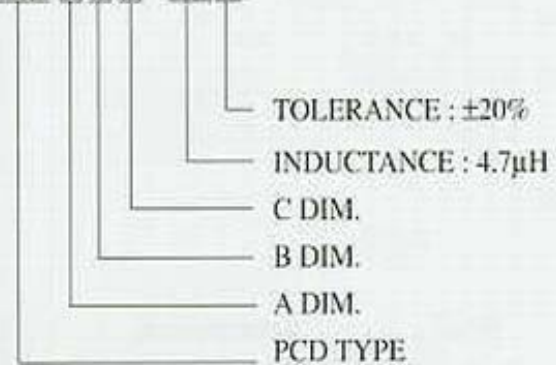


CHARACTERISTICS

1. Tested At 100 KHz, 0.1 Vrms.
2. Inductance Drop $\leq 10\%$ Type At Rated Idc 1
Temp. 40°C Rise Type At Idc2.
3. Operating Temperature Range -40°C To +85°C.
4. Electrical Specifications At 25°C

COIL CODE

PCD 131006 -4R7M



ELECTRICAL SPECIFICATION

ITEM	L (μH)	DCR MAX(Ω)	SRF MIN(MHz)	IDC1 MAX(A)	IDC2 MAX(A)
PCD131006					
R33M	0.33 ± 20%	0.002	300	20.0	16.0
R68M	0.68 ± 20%	0.005	200	13.0	12.0
1R0M	1.0 ± 20%	0.006	100	11.0	10.0
1R5M	1.5 ± 20%	0.008	90	9.0	9.0
2R2M	2.2 ± 20%	0.011	90	7.8	7.4
2R7M	2.7 ± 20%	0.012	65	7.0	6.6
3R3M	3.3 ± 20%	0.014	65	6.4	5.9
4R7M	4.7 ± 20%	0.018	45	5.4	4.8

PACKAGE: 500PCS/REEL

CHOKE COILS POWER CHIP

PCD 231608

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

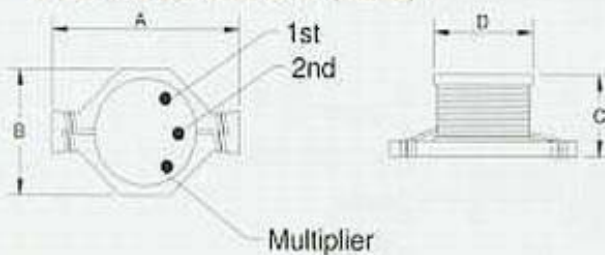
CHARACTERISTICS

1. INDUCTANCE TESTED AT 100 KHz, 0.1 Vrms.
2. DC CURRENT:
 - IDC 1: INDUCTANCE DROP $\leq 10\%$ AT IDC1.
 - IDC2: TEMP. 40°C RISE AT IDC2.
3. OPERATING TEMPERATURE RANGE -40°C TO $+85^{\circ}\text{C}$.
4. ELECTRICAL SPECIFICATIONS AT 25°C .

ELECTRICAL SPECIFICATION

ITEM	L	DCR	SRF	IDC1	IDC2
PCD231608	(μH)	MAX.($\text{m}\Omega$)	MIN.(MHz)	MAX.(A)	MAX.(A)
R78M	$0.78 \pm 20\%$	2.6	156	30	15
1R5M	$1.5 \pm 20\%$	4.0	100	25	15
2R2M	$2.2 \pm 20\%$	6.1	75	20	12
3R3M	$3.3 \pm 20\%$	8.6	60	17	10
3R9M	$3.9 \pm 20\%$	10	55	15	9.0
4R7M	$4.7 \pm 20\%$	14	40	13	8.4
6R0M	$6.0 \pm 20\%$	17	35	12	7.5
7R8M	$7.8 \pm 20\%$	18	35	11	7.5
100M	$10 \pm 20\%$	26	28	10	6.0

CONSTRUCTION (m/m)



A: 22.35 MAX

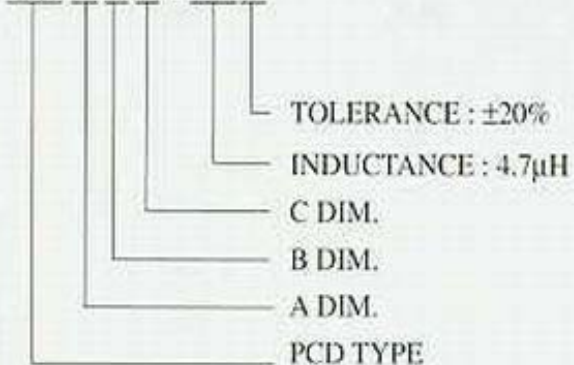
C: 8.0 MAX

B: 16.26 MAX

D: 12.7 ref.

COIL CODE

PCD 231608 - 4R7M



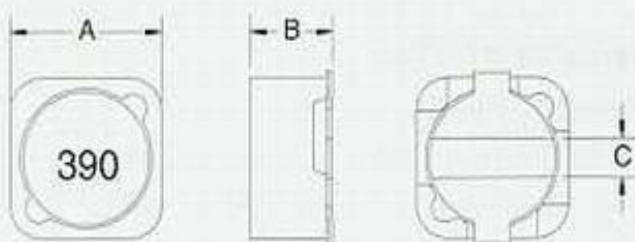
PCPACKAGE: 300PCS/REEL

CHOKE COILS POWER CHIP

PCRH 0630

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

CONSTRUCTION (m/m)



A: 6.6 ± 0.3 B: 3.0 MAX
C: 1.6 ± 0.5

ELECTRICAL SPECIFICATION

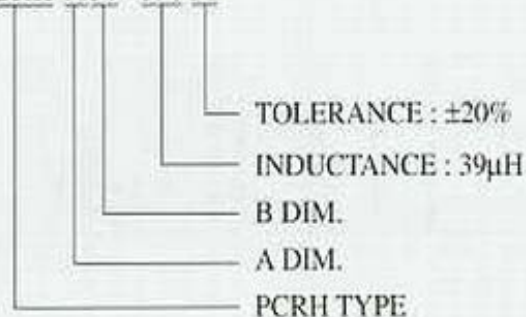
ITEM PCRH 0630	L (μ H)	RDC MAX.(Ω)	IDC MAX.(A)
2R9M	$2.9 \pm 20\%$	0.068	1.94
4R0M	$4.0 \pm 20\%$	0.080	1.63
5R5M	$5.5 \pm 20\%$	0.096	1.40
100M	$10 \pm 20\%$	0.150	1.10
120M	$12 \pm 20\%$	0.200	1.00
150M	$15 \pm 20\%$	0.230	0.90
180M	$18 \pm 20\%$	0.270	0.80
220M	$22 \pm 20\%$	0.340	0.74
270M	$27 \pm 20\%$	0.380	0.66
330M	$33 \pm 20\%$	0.450	0.59
390M	$39 \pm 20\%$	0.490	0.54
470M	$47 \pm 20\%$	0.690	0.50
560M	$45 \pm 20\%$	0.780	0.46
680M	$68 \pm 20\%$	1.070	0.42
820M	$82 \pm 20\%$	1.210	0.38
101M	$100 \pm 20\%$	1.390	0.34
121M	$120 \pm 20\%$	1.900	0.31
151M	$150 \pm 20\%$	2.180	0.28
181M	$180 \pm 20\%$	2.770	0.26
221M	$220 \pm 20\%$	3.120	0.23
271M	$270 \pm 20\%$	4.380	0.22
331M	$330 \pm 20\%$	4.940	0.19

CUSTOMERS' SPECIFICATION ARE WELCOME
INDUCTANCE RANGE 2.9 μ H~330 μ H



COIL CODE

PCRH 0630 - 390 M



CHARACTERISTICS

TEMPERATURE RISE 20°C
AMBIENT TEMPERATURE 80°C
TEMPERATURE RANGE -20°C to +80°C
TERMINAL STRENGTH 0.15 KGf MIN.
INDUCTANCE RANGE 2.9 μ H~330 μ H
OUTSIDE DIM 6.6mm
TESTING FREQUENCY 1KHZ

PCPACKAGE: 1000PCS/REEL

CHOKE COILS POWER CHIP

PCRH 0732

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS



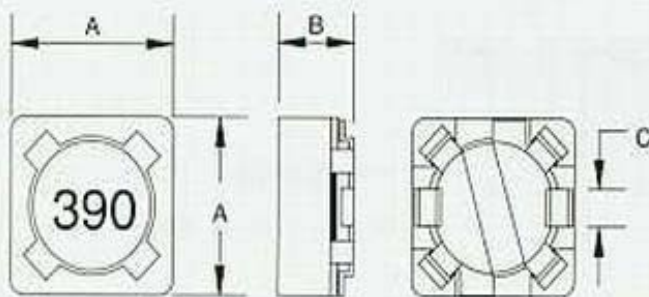
CHARACTERISTICS

TEMPERATURE RISE	20°C
AMBIENT TEMPERATURE	80°C
TEMPERATURE RANGE	-20°C to +80°C
TERMINAL STRENGTH	0.15 KGf MIN.
INDUCTANCE RANGE	10µH~1mH
OUTSIDE DIM	7.3mm
TESTING FREQUENCY	1KHZ/0.25V

ELECTRICAL SPECIFICATION

ITEM PCRH 0732	L (µH)	RDC MAX.(Ω)	IDC MAX.(A)
100M	10±20%	0.072	1.68
120M	12±20%	0.098	1.52
150M	15±20%	0.130	1.33
180M	18±20%	0.140	1.20
220M	22±20%	0.190	1.07
270M	27±20%	0.210	0.96
330M	33±20%	0.240	0.91
390M	39±20%	0.320	0.77
470M	47±20%	0.360	0.76
560M	56±20%	0.470	0.68
680M	68±20%	0.520	0.61
820M	82±20%	0.690	0.57
101M	100±20%	0.790	0.50
121M	120±20%	0.890	0.49
151M	150±20%	1.270	0.43
181M	180±20%	1.450	0.39
221M	220±20%	1.650	0.35
271M	270±20%	2.310	0.32
331M	330±20%	2.620	0.28
391M	390±20%	2.940	0.26
471M	470±20%	4.180	0.24
561M	560±20%	4.670	0.22
681M	680±20%	5.730	0.19
821M	820±20%	6.540	0.18
102M	1000±20%	9.440	0.16

CONSTRUCTION (m/m)



A: 7.3±0.2 B: 3.2±0.2
C: 2.0±0.1

COIL CODE

PCRH 0732 - 390 M

TOLERANCE : ±20%
INDUCTANCE : 39µH
B DIM.
A DIM.
PCRH TYPE

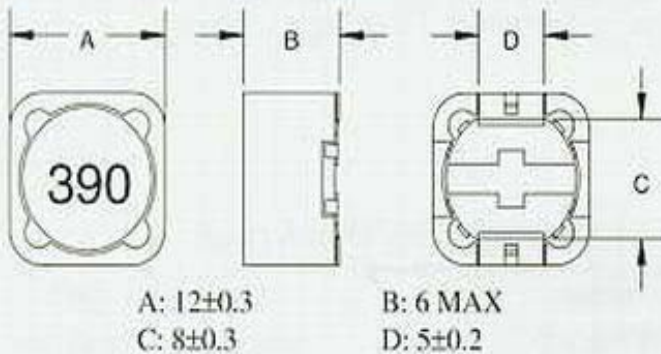
PCPACKAGE: 1000PCS/REEL

CHOKE COILS POWER CHIP

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

PCRH 125

CONSTRUCTION (m/m)

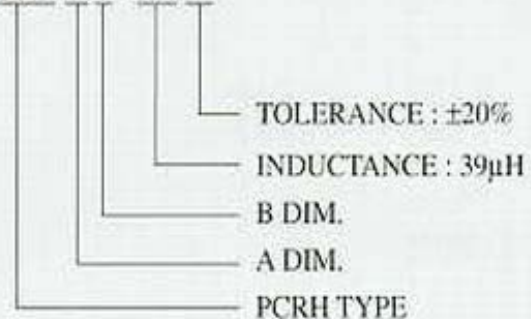


ELECTRICAL SPECIFICATION

ITEM	L	RDC	IDC
PCRH 125	(μH)	MAX.(Ω)	MAX.(A)
100M	$10 \pm 20\%$	34m	4.00
120M	$12 \pm 20\%$	37m	3.50
150M	$15 \pm 20\%$	43m	3.30
180M	$18 \pm 20\%$	45m	3.00
220M	$22 \pm 20\%$	49m	2.80
270M	$27 \pm 20\%$	55m	2.30
330M	$33 \pm 20\%$	66m	2.10
390M	$39 \pm 20\%$	72m	2.00
470M	$47 \pm 20\%$	87m	1.80
560M	$56 \pm 20\%$	0.118	1.70
680M	$68 \pm 20\%$	0.128	1.50
820M	$82 \pm 20\%$	0.150	1.40
101M	$100 \pm 20\%$	0.164	1.30
121M	$120 \pm 20\%$	0.210	1.10
151M	$150 \pm 20\%$	0.246	1.00
181M	$180 \pm 20\%$	0.299	0.90
221M	$220 \pm 20\%$	0.412	0.80
271M	$270 \pm 20\%$	0.470	0.75
331M	$330 \pm 20\%$	0.577	0.68
391M	$390 \pm 20\%$	0.700	0.65
471M	$470 \pm 20\%$	0.752	0.58
561M	$560 \pm 20\%$	0.906	0.54
681M	$680 \pm 20\%$	1.257	0.48
821M	$820 \pm 20\%$	1.380	0.43
102M	$1000 \pm 20\%$	1.629	0.40

COIL CODE

PCRH 12 5 - 390 M



CHARACTERISTICS

TEMPERATURE RISE 20°C
 AMBIENT TEMPERATURE 80°C
 TEMPERATURE RANGE -25°C to $+80^\circ\text{C}$
 TERMINAL STRENGTH 0.15 KGf MIN.
 INDUCTANCE RANGE $10 \mu\text{H}$ ~ 1mH
 OUTSIDE DIM 12mm
 TESTING FREQUENCY 1KHZ/0.25V

CUSTOMERS' SPECIFICATION ARE WELCOME
INDUCTANCE RANGE $10 \mu\text{H}$ ~ 1mH

PCPACKAGE: 500PCS/REEL

CHOKE COILS POWER CHIP

PCRH 127

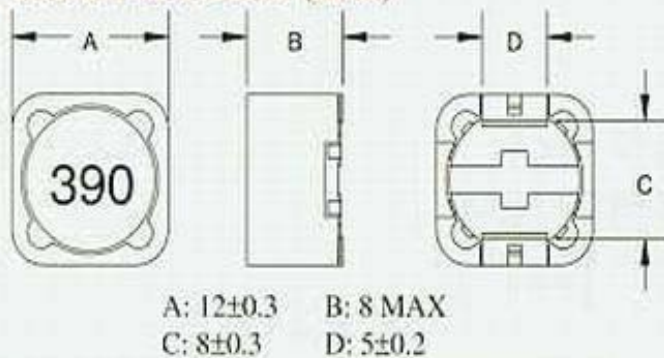
SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

ELECTRICAL SPECIFICATION

ITEM PCRH 127	L (μ H)	RDC MAX.(Ω)	IDC MAX.(A)
1R2M	1.2 \pm 20%	7.0m	9.80
2R4M	2.4 \pm 20%	11.5m	8.00
3R5M	3.5 \pm 20%	13.5m	7.50
4R7M	4.7 \pm 20%	15.8m	6.80
6R1M	6.1 \pm 20%	17.6m	6.60
7R6M	7.6 \pm 20%	20.0m	5.90
100M	10 \pm 20%	21.6m	5.40
120M	12 \pm 20%	24.3m	4.90
150M	15 \pm 20%	27.0m	4.50
180M	18 \pm 20%	39.2m	3.90
220M	22 \pm 20%	43.2m	3.60
270M	27 \pm 20%	45.9m	3.40
330M	33 \pm 20%	64.8m	3.00
390M	39 \pm 20%	72.9m	2.75
470M	47 \pm 20%	0.1	2.50
560M	56 \pm 20%	0.11	2.35
680M	68 \pm 20%	0.14	2.10
820M	82 \pm 20%	0.16	1.95
101M	100 \pm 20%	0.22	1.70
121M	120 \pm 20%	0.25	1.60
151M	150 \pm 20%	0.28	1.42
181M	180 \pm 20%	0.35	1.30
221M	220 \pm 20%	0.39	1.16
271M	270 \pm 20%	0.56	1.06
331M	330 \pm 20%	0.64	0.95
391M	390 \pm 20%	0.70	0.88
471M	470 \pm 20%	0.98	0.79
561M	560 \pm 20%	1.07	0.73
681M	680 \pm 20%	1.46	0.67
821M	820 \pm 20%	1.64	0.60
102M	1000 \pm 20%	1.82	0.55

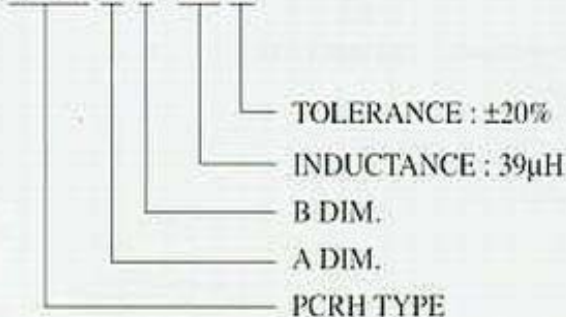


CONSTRUCTION (m/m)



COIL CODE

PCRH 12 7 - 390 M



CHARACTERISTICS

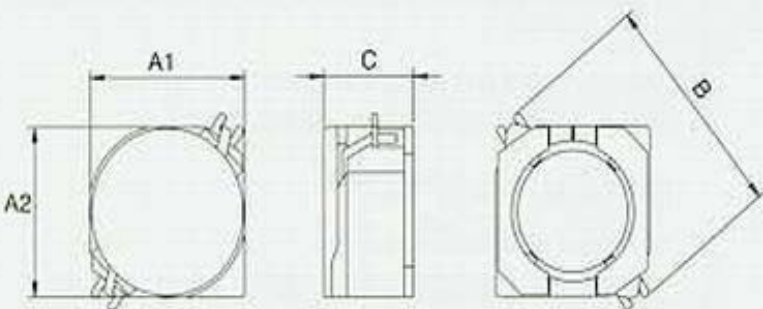
TEMPERATURE RISE	20°C
AMBIENT TEMPERATURE	80°C
TEMPERATURE RANGE	-25°C to +80°C
TERMINAL STRENGTH	0.15 KGf MIN.
INDUCTANCE RANGE	1.2 μ H~1mH
OUTSIDE DIM	12mm
TESTING FREQUENCY	1KHZ/0.25V

PCPACKAGE: 500PCS/REEL

CHOKE COILS POWER CHIP

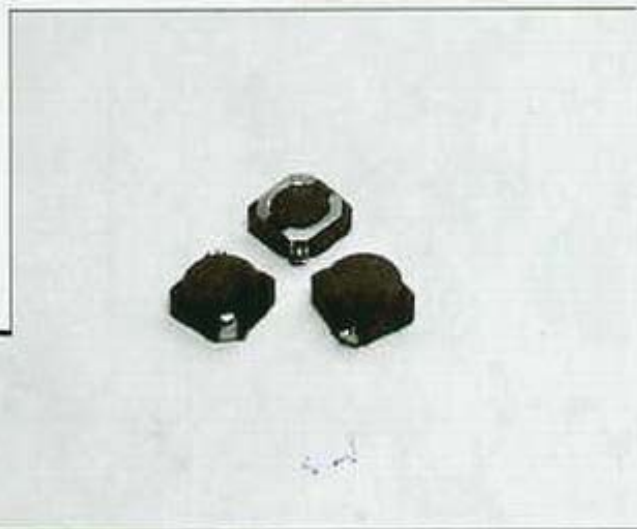
CONSTRUCTION (m/m)

PCRH 4D18



A1: 5.0 MAX
B: 6.9 MAX

A2: 5.0 MAX
C: 2.0 MAX

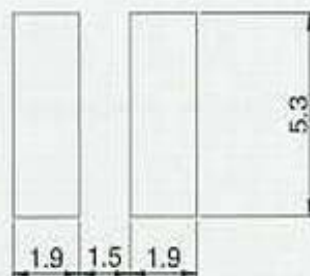


ELECTRICAL SPECIFICATION

ITEM	L (μ H)	DCR MAX.(Ω)	IDC1-IDC2 MAX.(A)
1R0N	1.0 \pm 30%	45m	1.72
2R2N	2.2 \pm 30%	75m	1.32
2R7N	2.7 \pm 30%	80m	1.28
3R3N	3.3 \pm 30%	95m	1.04
3R9N	3.9 \pm 30%	100m	0.88
4R7N	4.7 \pm 30%	108m	0.84
5R6N	5.6 \pm 30%	120m	0.80
6R8N	6.8 \pm 30%	170m	0.76
8R2N	8.2 \pm 30%	180m	0.68
100N	10 \pm 30%	200m	0.61
120N	12 \pm 30%	205m	0.56
150N	15 \pm 30%	240m	0.50
180N	18 \pm 30%	290m	0.48
220N	22 \pm 30%	390m	0.41
270N	27 \pm 30%	410m	0.35
330N	33 \pm 30%	500m	0.32
390N	39 \pm 30%	650m	0.30
470N	47 \pm 30%	700m	0.29

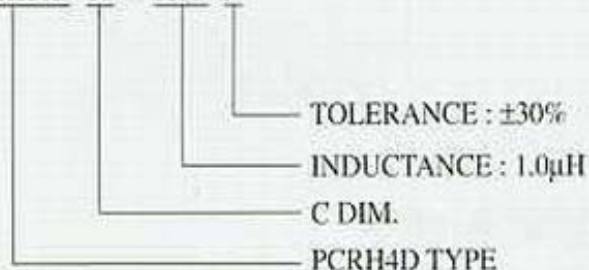
SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

Land Patterns



COIL CODE

PCRH4D 18 - 1R0 N



CHARACTERISTICS

- TESTED AT 100KHZ, 0.5VRMS
- OPERATING TEMPERATURE RANGE: -40°C TO+85°C
- ELECTRICAL SPECIFICATIONS AT 25°C

CHOKE COILS POWER CHIP

PCRH 4D28

SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

CHARACTERISTICS

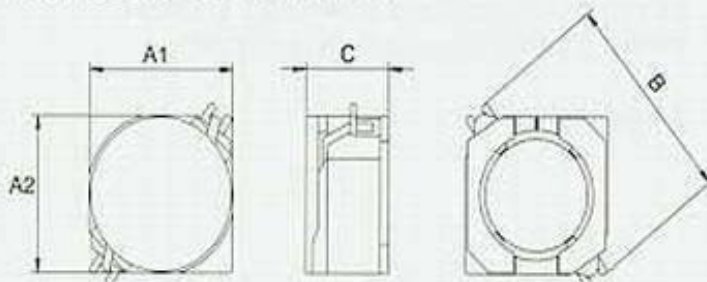
1. TESTED AT 100KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

ITEM PCRH 4D28	L (μ H)	DCR MAX.(Ω)	IDC1, IDC2 MAX.(A)
1R2N	1.2 \pm 30%	42	2.56
1R8N	1.8 \pm 30%	44	2.20
2R2N	2.2 \pm 30%	47	2.04
2R7N	2.7 \pm 30%	49	1.60
3R3N	3.3 \pm 30%	57	1.57
3R9N	3.9 \pm 30%	74	1.44
4R7N	4.7 \pm 30%	80	1.32
5R6N	5.6 \pm 30%	90	1.17
6R8N	6.8 \pm 30%	98	1.12
8R2N	8.2 \pm 30%	124	1.04
100N	10 \pm 30%	134	1.00
120N	12 \pm 30%	144	0.84
150N	15 \pm 30%	165	0.76
180N	18 \pm 30%	190	0.72
220N	22 \pm 30%	248	0.70
270N	27 \pm 30%	261	0.58
330N	33 \pm 30%	320	0.56
390N	39 \pm 30%	360	0.50
470N	47 \pm 30%	480	0.48
560N	56 \pm 30%	500	0.41
680N	68 \pm 30%	550	0.35
820N	82 \pm 30%	660	0.32
101N	100 \pm 30%	760	0.29
121N	120 \pm 30%	1027	0.27
151N	150 \pm 30%	1200	0.24
181N	180 \pm 30%	1500	0.22

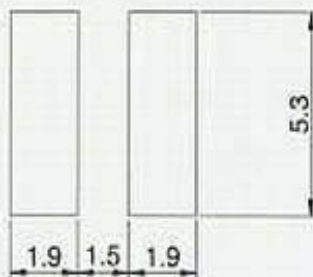


CONSTRUCTION (m/m)



A1: 5.0 MAX. A2: 5.0 MAX. B: 6.9 MAX. C: 3.1 MAX.

Land Patterns



COIL CODE

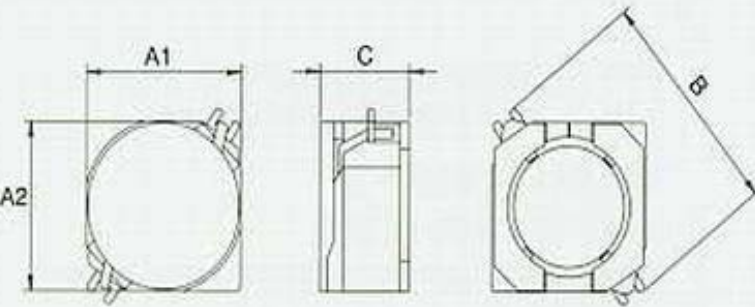
PCRH4D 28 - 1R2 N

PCRH4D TYPE
 C DIM.
 INDUCTANCE : 1.2 μ H
 TOLERANCE : \pm 30%

CHOKE COILS POWER CHIP

CONSTRUCTION (m/m)

PCRH 5D18



A1: 5.7 MAX
B: 8.2 MAX

A2: 5.7 MAX
C: 2.0 MAX

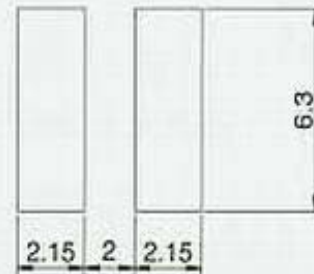


ELECTRICAL SPECIFICATION

ITEM	L (μH)	DCR MAX.(Ω)	IDC1/IDC2 MAX.(A)
PCRH5D18			
5R4N	5.4 \pm 30%	76m	1.55
6R2N	6.2 \pm 30%	96m	1.38
8R9N	8.9 \pm 30%	116m	1.12
100N	10 \pm 30%	162m	1.05
120N	12 \pm 30%	192m	0.95
150N	15 \pm 30%	225m	0.90
180N	18 \pm 30%	260m	0.85
220N	22 \pm 30%	280m	0.70
270N	27 \pm 30%	300m	0.65
330N	33 \pm 30%	386m	0.60
390N	39 \pm 30%	480m	0.55
470N	47 \pm 30%	520m	0.48
560N	56 \pm 30%	665m	0.45
680N	68 \pm 30%	800m	0.40
820N	82 \pm 30%	978m	0.36
101N	100 \pm 30%	1200m	0.33

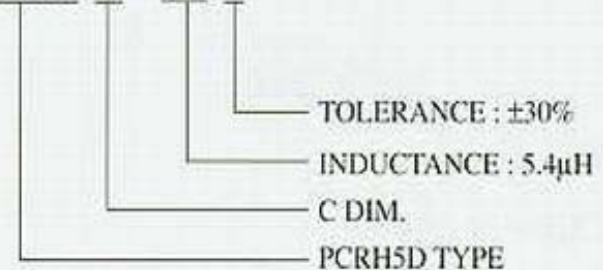
SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

Land Patterns



COIL CODE

PCRH5D 18 - 5R4 N



CHARACTERISTICS

1. TESTED AT 10KHZ. 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO +85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

CHOKE COILS POWER CHIP

PCRH 5D28

SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

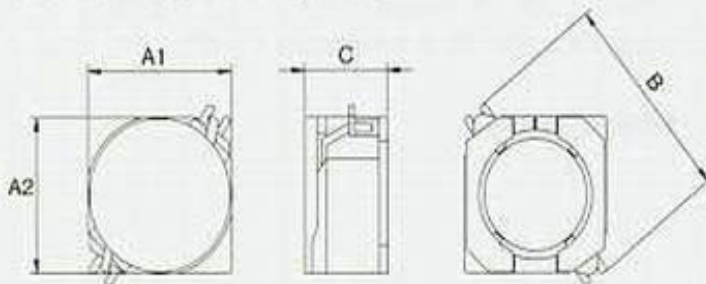
CHARACTERISTICS

1. TESTED AT 10KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

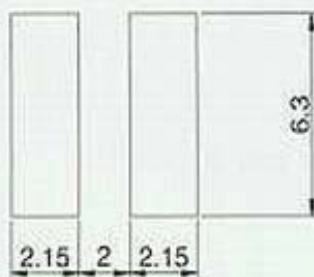
ITEM PCRH 5D28	L (μ H)	RDC MAX.(Ω)	IDC1/IDC2 MAX.(A)
2R6N	2.6 \pm 30%	32m	2.6
3R0N	3.0 \pm 30%	34m	2.4
4R2N	4.2 \pm 30%	38m	2.2
5R3N	5.3 \pm 30%	54m	1.9
6R2N	6.2 \pm 30%	58m	1.8
8R2N	8.2 \pm 30%	66m	1.6
100N	10 \pm 30%	81m	1.3
120N	12 \pm 30%	90m	1.2
150N	15 \pm 30%	103m	1.1
180N	18 \pm 30%	130m	1.0
220N	22 \pm 30%	150m	0.9
270N	27 \pm 30%	220m	0.85
330N	33 \pm 30%	230m	0.75
390N	39 \pm 30%	250m	0.70
470N	47 \pm 30%	300m	0.62
560N	56 \pm 30%	330m	0.58
680N	68 \pm 30%	360m	0.52
820N	82 \pm 30%	550m	0.46
101N	100 \pm 30%	630m	0.42

CONSTRUCTION (m/m)



A1: 5.7 MAX. A2: 5.7 MAX. B: 8.2 MAX C: 3.1 MAX.

Land Patterns



COIL CODE

PCRH5D 28 - 2R6 N

TOLERANCE : \pm 30%

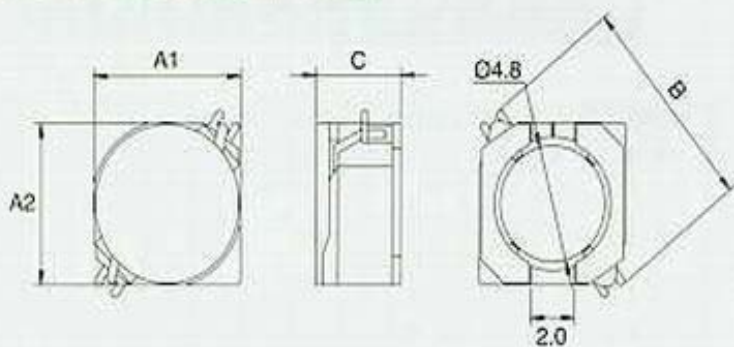
INDUCTANCE : 2.6 μ H

C DIM.

PCRH5D TYPE

CHOKE COILS POWER CHIP

CONSTRUCTION (m/m)



A1: 7.0 MAX
B: 9.5 MAX

A2: 7.0 MAX
C: 3.0 MAX

PCRH 6D28

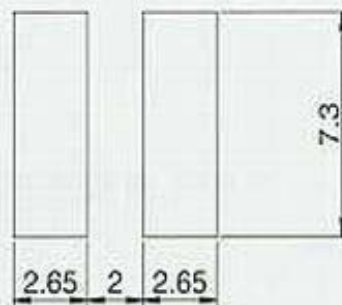


ELECTRICAL SPECIFICATION

ITEM	L	DCR	IDC
PCRH6D28	(μH)	MAX.(Ω)	MAX.(A)
3R0N	3.0 \pm 30%	29m	2.9
3R9N	3.9 \pm 30%	30m	2.5
5R0N	5.0 \pm 30%	35m	2.2
6R0N	6.0 \pm 30%	37m	2.0
7R3N	7.3 \pm 30%	54m	1.75
8R6N	8.6 \pm 30%	58m	1.70
100N	10 \pm 30%	65m	1.55
120N	12 \pm 30%	70m	1.40
150N	15 \pm 30%	90m	1.32
180N	18 \pm 30%	107m	1.20
220N	22 \pm 30%	140m	1.15
270N	27 \pm 30%	160m	0.92
330N	33 \pm 30%	173m	0.88
390N	39 \pm 30%	230m	0.80
470N	47 \pm 30%	238m	0.75
560N	56 \pm 30%	277m	0.70
680N	68 \pm 30%	300m	0.64
820N	82 \pm 30%	390m	0.57
101N	100 \pm 30%	435m	0.50

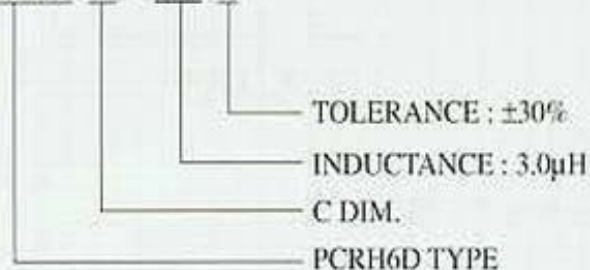
SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

Land Patterns



COIL CODE

PCRH6D 28 - 3R0 N



CHARACTERISTICS

- TESTED AT 10KHZ, 0.25VRMS
- OPERATING TEMPERATURE RANGE: -40°C TO +85°C
- ELECTRICAL SPECIFICATIONS AT 25°C

CHOKE COILS POWER CHIP

PCRH 6D38

SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

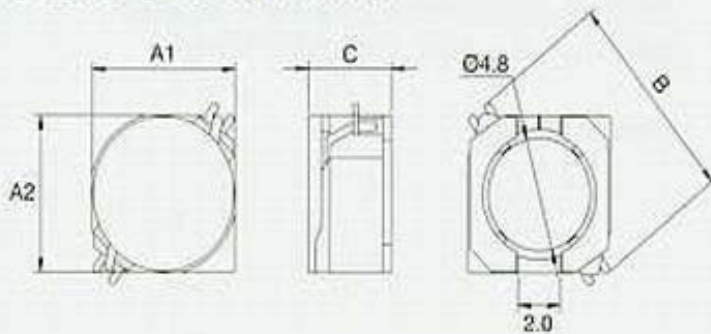
CHARACTERISTICS

1. TESTED AT 10KHZ, 0.25VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

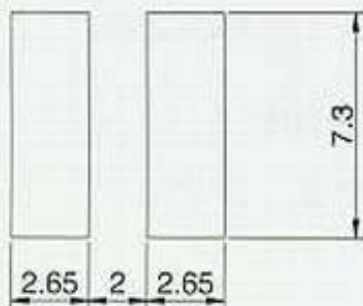
ITEM	L (μ H)	DCR MAX.(Ω)	IDC1 MAX.(A)
PCRH 6D38			
3R3N	3.3 \pm 30%	27m	3.50
5R0N	5.0 \pm 30%	34m	2.90
6R2N	6.2 \pm 30%	36m	2.50
7R4N	7.4 \pm 30%	38m	2.30
8R7N	8.7 \pm 30%	40m	2.20
100N	10 \pm 30%	49m	2.00
120N	12 \pm 30%	54m	1.70
150N	15 \pm 30%	62m	1.60
180N	18 \pm 30%	71m	1.50
220N	22 \pm 30%	80m	1.30
270N	27 \pm 30%	102m	1.20
330N	33 \pm 30%	116m	1.10
390N	39 \pm 30%	125m	1.00
470N	47 \pm 30%	153m	0.95
560N	56 \pm 30%	182m	0.85
680N	68 \pm 30%	195m	0.75
820N	82 \pm 30%	220m	0.70
101N	100 \pm 30%	285m	0.65

CONSTRUCTION (m/m)



A1: 7.0 MAX. A2: 7.0 MAX. B: 9.5 MAX. C: 4.0 MAX.

Land Patterns



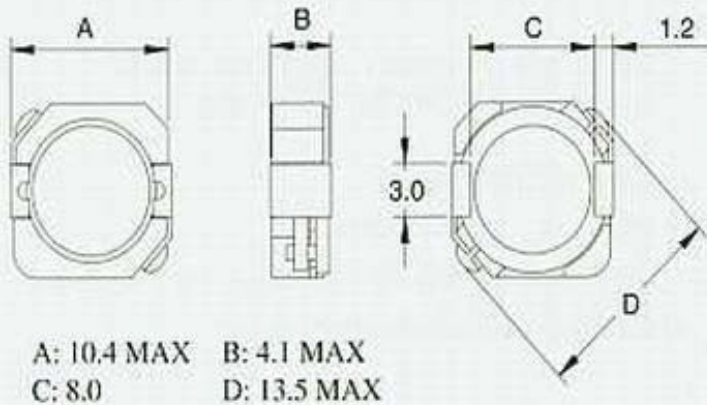
COIL CODE

PCRH6D 38 - 3R3 N



CHOKE COILS POWER CHIP

CONSTRUCTION (m/m)



A: 10.4 MAX
B: 4.1 MAX
C: 8.0
D: 13.5 MAX

PCR5 104

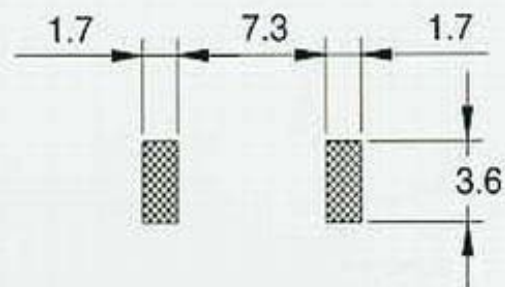


ELECTRICAL SPECIFICATION

ITEM	L (μ H)	DCR MAX.(Ω)	IDC1 / IDC2 MAX.(A)
PCR5 104			
1R5N	1.5 \pm 30%	16m	10
2R1N	2.1 \pm 30%	18m	8.5
3R3N	3.3 \pm 30%	20m	7.5
4R7N	4.7 \pm 30%	28m	6.0
5R8N	5.8 \pm 30%	32m	5.5
7R0N	7.0 \pm 30%	34m	4.8
100	10 \pm 30%	42m	4.4
120	12 \pm 30%	44m	4.0
150	15 \pm 30%	60m	3.6
220	22 \pm 30%	73m	2.9
330	33 \pm 30%	105m	2.3
470	47 \pm 30%	145m	2.1
680	68 \pm 30%	210m	1.5
101	100 \pm 30%	300m	1.35
151	150 \pm 30%	450m	1.15
221	220 \pm 30%	650m	0.92
331	330 \pm 30%	1000m	0.70

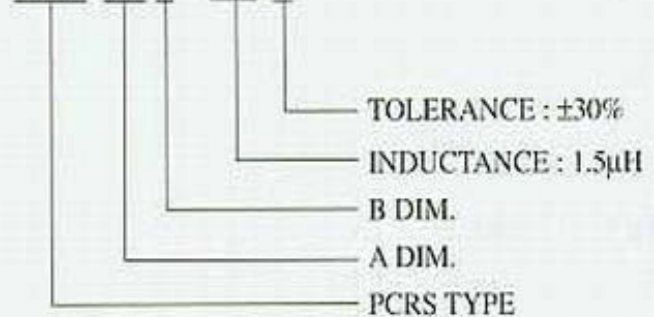
SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

Land Patterns



COIL CODE

PCR5 104 4 - 1R5 N



CHARACTERISTICS

1. TESTED AT 100KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

CHOKE COILS POWER CHIP

PBS 0732



SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

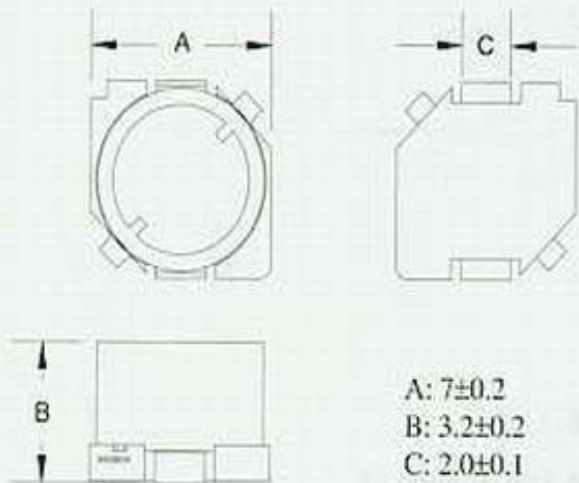
CHARACTERISTICS

1. TESTED AT 1KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

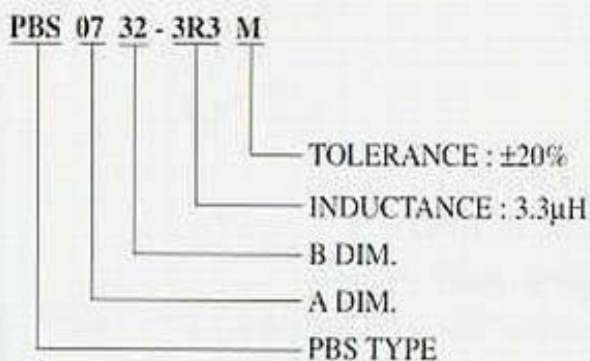
ELECTRICAL SPECIFICATION

ITEM	L (μ H)	DCR MAX.(Ω)	IDC1 MAX.(A)
PBS 0732			
3R3M	3.3 \pm 20%	0.023	1.9
4R7M	4.7 \pm 20%	0.036	1.7
6R8M	6.8 \pm 20%	0.041	1.6
100M	10 \pm 20%	0.053	1.4
150M	15 \pm 20%	0.075	1.1
220M	22 \pm 20%	0.110	0.96
330M	33 \pm 20%	0.160	0.75
470M	47 \pm 20%	0.240	0.67
680M	68 \pm 20%	0.310	0.59
101M	100 \pm 20%	0.450	0.45
151M	150 \pm 20%	0.650	0.37
221M	220 \pm 20%	1.050	0.29
331M	330 \pm 20%	1.670	0.22
471M	470 \pm 20%	2.050	0.20
681M	680 \pm 20%	3.150	0.16
102M	1000 \pm 20%	4.780	0.13

CONSTRUCTION (m/m)



COIL CODE



CHOKE COILS POWER CHIP

SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

PBS 0745

CHARACTERISTICS

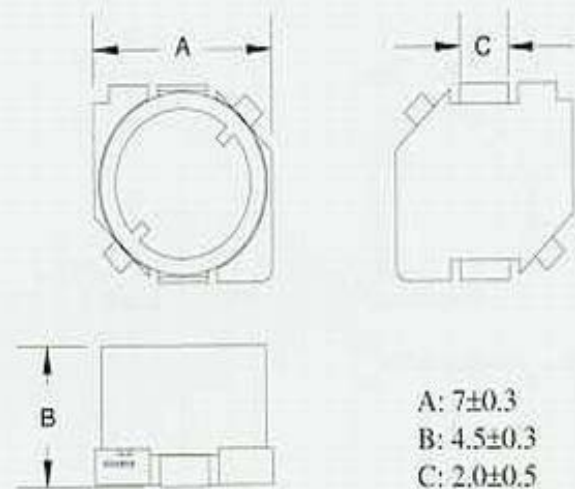
1. TESTED AT 1KHZ, 0.25VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO +85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

ITEM	L (μH)	DCR MAX.(Ω)	IDC1 MAX.(A)
PBS 0745			
3R3M	3.3 \pm 20%	0.020	2.5
4R7M	4.7 \pm 20%	0.030	2
6R8M	6.8 \pm 20%	0.036	1.7
100M	10 \pm 20%	0.039	1.3
150M	15 \pm 20%	0.052	1.1
220M	22 \pm 20%	0.061	0.9
330M	33 \pm 20%	0.096	0.82
470M	47 \pm 20%	0.125	0.75
680M	68 \pm 20%	0.175	0.6
101M	100 \pm 20%	0.25	0.5
151M	150 \pm 20%	0.34	0.4
221M	220 \pm 20%	0.52	0.33
331M	330 \pm 20%	0.74	0.25
471M	470 \pm 20%	1.05	0.22
681M	680 \pm 20%	1.48	0.2
102M	1000 \pm 20%	2.28	0.14



CONSTRUCTION (m/m)



COIL CODE

PBS 07 45 - 3R3 M

TOLERANCE : \pm 20%
 INDUCTANCE : 3.3 μH
 B DIM.
 A DIM.
 PBS TYPE

CHOKE COILS POWER CHIP

PBS 0780



SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

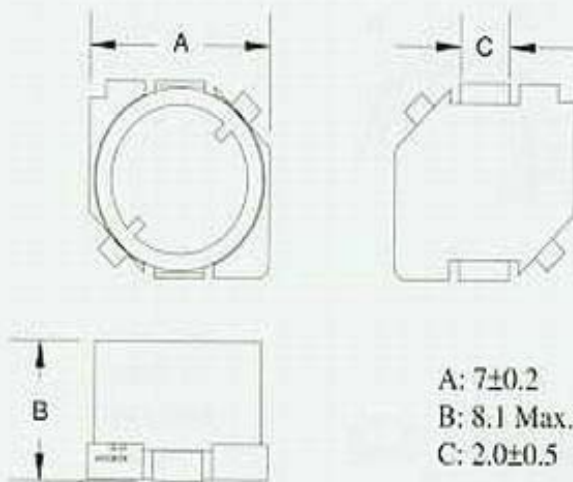
CHARACTERISTICS

1. TESTED AT 100KHZ, 0.25VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

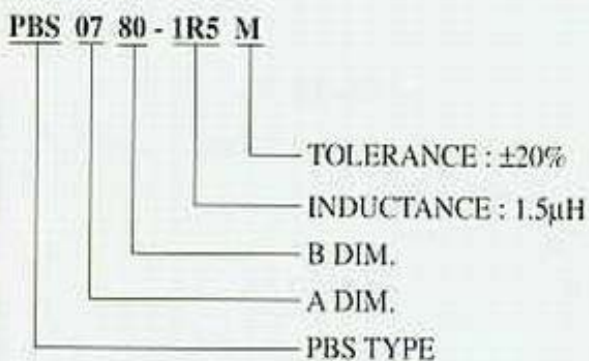
ELECTRICAL SPECIFICATION

ITEM PBS 0780	L(μH) (± 20%)	DCR MAX.(Ω)	IDC MAX.(A)
1R5M	1.5	0.023	4.00
2R2M	2.2	0.026	3.60
3R3M	3.3	0.031	3.10
4R7M	4.7	0.037	2.50
6R8M	6.8	0.044	2.10
100M	10	0.053	1.75
120M	12	0.056	1.70
150M	15	0.065	1.45
180M	18	0.071	1.32
220M	22	0.079	1.20
270M	27	0.082	1.08
330M	33	0.099	1.00
390M	39	0.134	0.90
470M	47	0.150	0.86
560M	56	0.201	0.83
680M	68	0.300	0.80
820M	82	0.320	0.70
101M	100	0.350	0.60
121M	120	0.581	0.53
151M	150	0.646	0.48
181M	180	0.725	0.45
221M	220	0.811	0.40
271M	270	1.148	0.36
331M	330	1.273	0.32

CONSTRUCTION (m/m)



COIL CODE



CHOKE COILS POWER CHIP

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

PBS 1045

CHARACTERISTICS

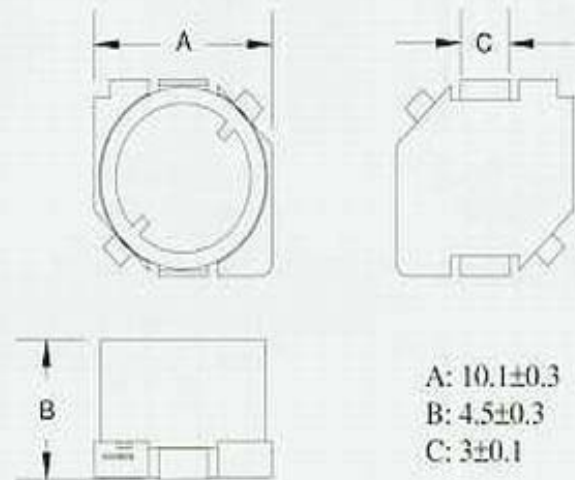
1. TESTED AT 1KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO+85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

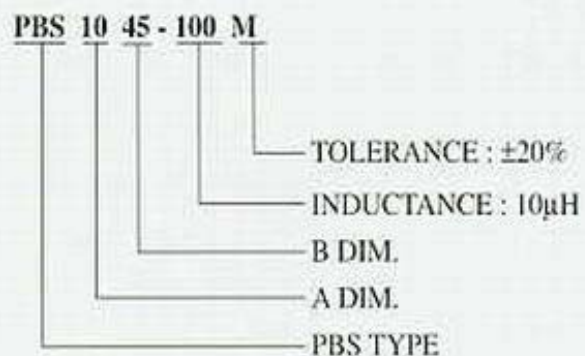
ITEM	L (μ H)	DCR (Ω) \pm 20%	IDC MAX.(A)
PBS 1045			
100M	10 \pm 20%	0.0364	3.0
150M	15 \pm 20%	0.0472	2.4
220M	22 \pm 20%	0.0591	2.1
330M	33 \pm 20%	0.0815	1.6
470M	47 \pm 20%	0.10	1.4
680M	68 \pm 20%	0.14	1.2
101M	100 \pm 20%	0.20	1.0
151M	150 \pm 20%	0.35	0.79
221M	220 \pm 20%	0.47	0.65
331M	330 \pm 20%	0.68	0.54
471M	470 \pm 20%	1.03	0.47
681M	680 \pm 20%	1.60	0.38
102M	1000 \pm 20%	2.80	0.32
152M	1500 \pm 20%	3.40	0.22



CONSTRUCTION (m/m)

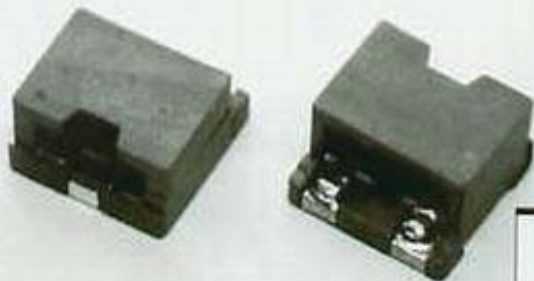


COIL CODE



CHOKE COILS POWER CHIP

SEP 126(H,U)



SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

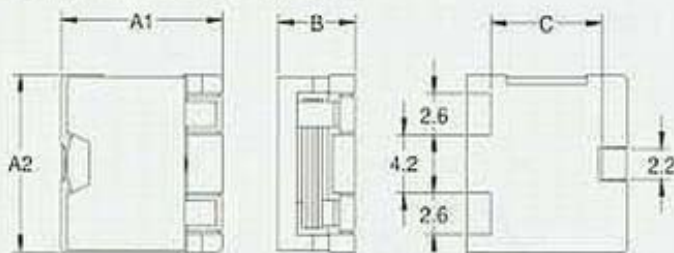
CHARACTERISTICS

1. TESTED AT 100KHZ, 0.5VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO +85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

ITEM	L (μ H)	DCR MAX.(Ω)	IDC MAX.(A)
SEP126-1R5M	1.5 \pm 20%	2.5m	14.0
SEP126-2R5M	2.5 \pm 20%	3.4m	10.0
SEP126-4R0M	4.0 \pm 20%	5.4m	8.3
SEP126-6R0M	6.0 \pm 20%	8.0m	6.7
SEP126-8R2M	8.2 \pm 20%	11.4m	5.8
SEP126-100M	10 \pm 20%	13.5m	5.0
SEP126H-1R0M	1.0 \pm 20%	2.5m	20.0
SEP126H-1R8M	1.8 \pm 20%	3.4m	15.3
SEP126H-2R8M	2.8 \pm 20%	5.4m	12.3
SEP126H-4R0M	4.0 \pm 20%	8.0m	10.3
SEP126H-5R6M	5.6 \pm 20%	11.4m	8.8
SEP126H-7R2M	7.2 \pm 20%	13.5m	7.8
SEP126U-0R3M	0.3 \pm 30%	1.8m	35
SEP126U-0R8M	0.8 \pm 30%	2.5m	27.2
SEP126U-1R4M	1.4 \pm 20%	3.4m	20.8
SEP126U-2R2M	2.2 \pm 20%	5.4m	14.8
SEP126U-3R2M	3.2 \pm 20%	8.0m	12.8
SEP126U-4R3M	4.3 \pm 20%	11.4m	11.0
SEP126U-5R6M	5.6 \pm 20%	13.5m	9.5

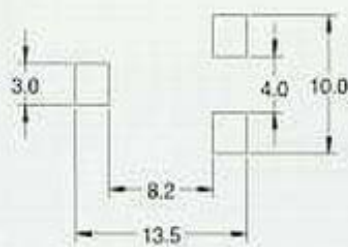
CONSTRUCTION (m/m)



A1: 12.9MAX
B: 6.5 MAX

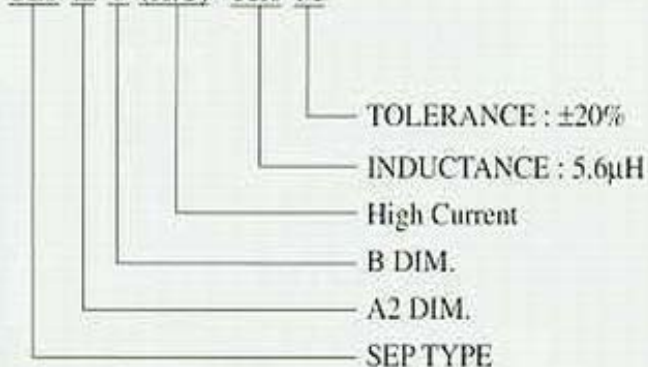
A2: 12.9MAX
C: 9.0

Land Patterns



COIL CODE

SEP 12 6 (H,U) - 5R6 M



PCRH TYPE

GENERAL CHARACTERISTICS

1. OPERATION TEMPERATURE:

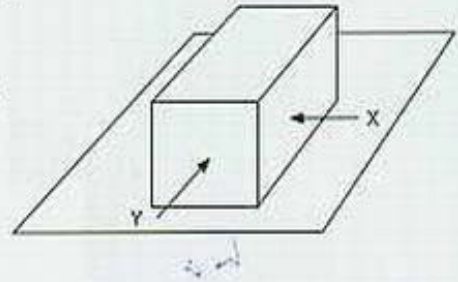
-25°C ~ +80°C (COIL CONTAIN HEAT)

2. EXTERNAL APPEARANCE:

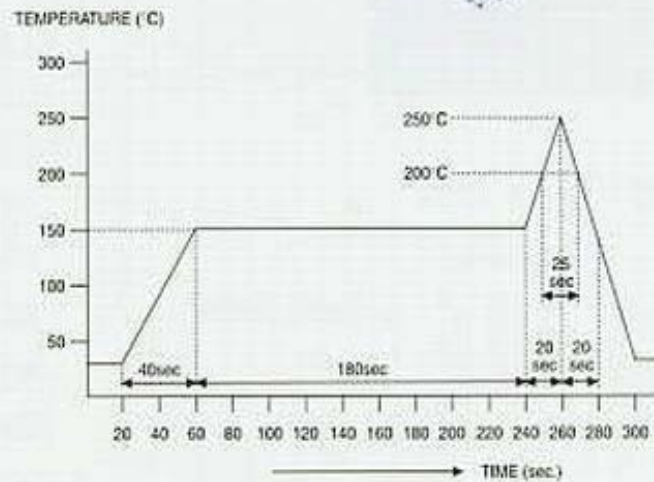
ON VISUAL INSPECTION, THE COIL HAS NO EXTERNAL DEFECTS.

3. TERMINAL STRENGTH:

AFTER SOLDERING, BETWEEN COPPER PLATE AND TERMINAL OF COIL, PUSH IN TWO DIRECTIONS OF X, Y WITH STANDING 5.0 N (0.15KGF) FOR 10 ± 2 SECONDS. TERMINAL SHOULD NOT PEEL OFF. (REFER TO FIGURE AT RIGHT)



4. HEAT ENDURANCE TEST:



5. DIELECTRIC STRENGTH:

NO APPARENT AT 100V D.C FOR 1 MINUTE BETWEEN COIL - CORE.

6. INSULATING RESISTANCE:

OVER 100M AT 100V D.C. BETWEEN COIL - CORE.

7. INDUCTANCE TEMPERATURE COEFFICIENT:

$(0-2000) \times 10^{-6} / ^\circ\text{C}$ (-25°C ~ +80°C)

8. HUMIDITY TEST:

INDUCTANCE DEVIATION WITHIN $\pm 5\%$ AFTER 96 HOURS IN 90~95% RELATIVE HUMIDITY $40 \pm 2^\circ\text{C}$ AND 1 HOUR DRYING UNDER NORMAL CONDITION.

9. VIBRATION TEST:

INDUCTANCE DEVIATION WITHIN $\pm 3.0\%$, AFTER VIBRATION FOR 1 HOUR IN EACH OF THREE ORIENTATIONS AT SWEEP VIBRATION (10~55~10Hz) WITH 1.5mm P-P AMPLITUDE.

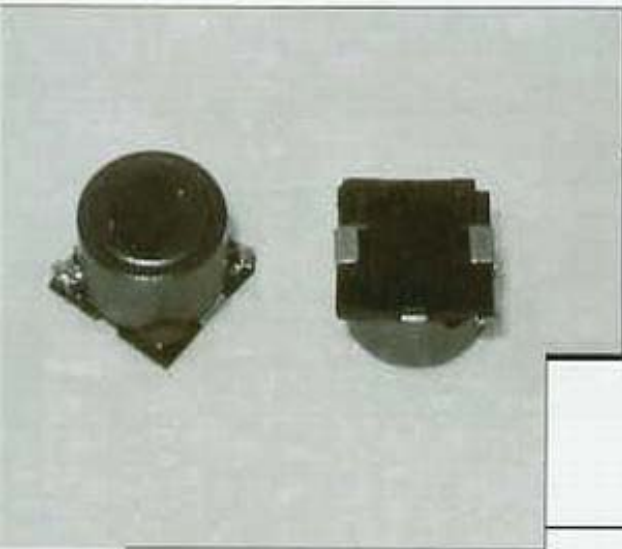
10. SHAKE TEST:

INDUCTANCE DEVIATION WITH $\pm 3.0\%$, AFTER DROP DOWN WITH 981m/s^2 (100 G) SHACK ATTITUDE UPON A RUBBER BLOCK METHOD SHOCK TESTING MACHINE, FOR 1 TIME, IN EACH OF THREE ORIENTATIONS.

CHOKE COILS POWER CHIP

STP 127

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS



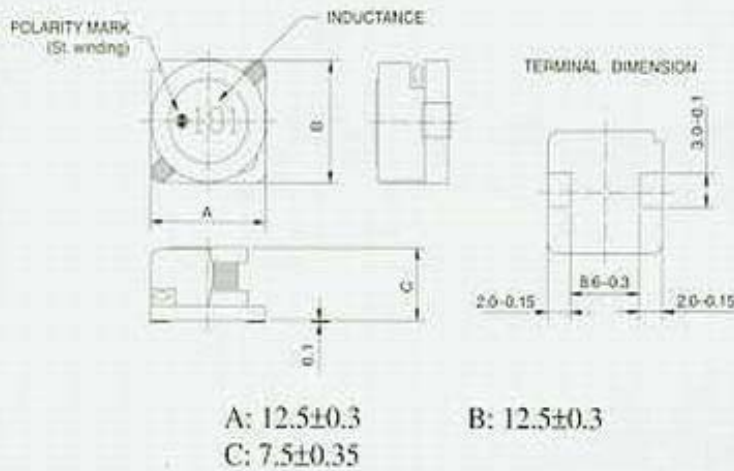
CHARACTERISTICS

TEMPERATURE RISE	20°C
AMBIENT TEMPERATURE	80°C
TEMPERATURE RANGE	-25°C to +80°C
TERMINAL STRENGTH	0.15 KGf MIN.
INDUCTANCE RANGE	0.12μH~220μH
OUTSIDE DIM	12.5mm
TESTING FREQUENCY	1KHz

ELECTRICAL SPECIFICATION

ITEM	L	RDC	IDC1*	IDC2*
STP127	(μH)	MAX.(Ω)	MAX.(A)	MAX.(A)
1R2	1.2±30%	8.3m	13	8.2
2R7	2.7±30%	11.3m	10	7.0
3R9	3.9±30%	12.5m	9.0	6.7
4R7	4.7±30%	13.2m	8.4	6.5
5R6	5.6±20%	13.9m	7.8	6.3
6R8	6.8±20%	15.7m	7.2	5.9
100	10±20%	18.7m	5.5	5.4
120	12±20%	20.4m	5.1	5.2
150	15±20%	22.1m	4.7	5.0
220	22±20%	31.6m	4.0	4.0
330	33±20%	47.4m	3.2	3.4
470	47±20%	63.4m	2.7	3.0
680	68±20%	93.4m	2.0	2.4
101	100±20%	0.15	1.9	1.9
151	150±20%	0.21	1.5	1.6
221	220±20%	0.31	1.3	1.3

CONSTRUCTION (m/m)



COIL CODE

STP 127 - 100 M

TOLERANCE : ±20%
INDUCTANCE : 10μH
A DIM.
STP TYPE

PACKAGE: 500PCS/REEL

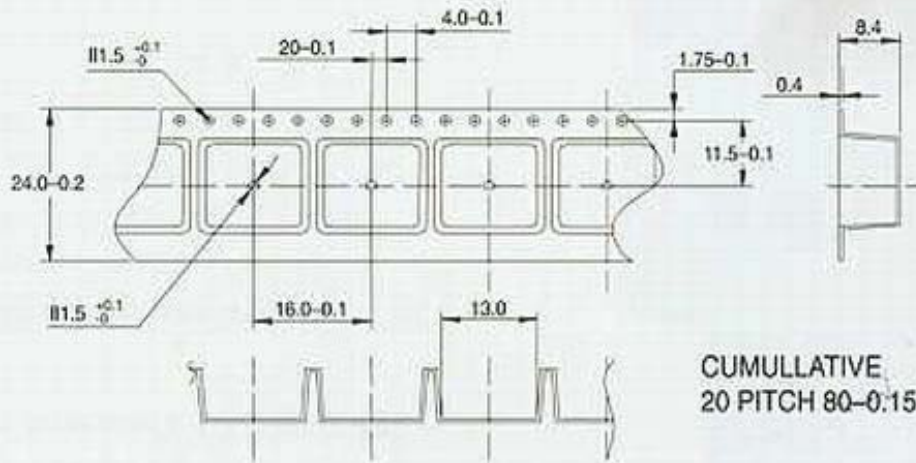
* IDC 1: BASE ON INDUCTANCE CHANGE

($1 \Delta L/L01 \leq 15\%$) $\Delta L = L(\text{IDC}) - L0A$

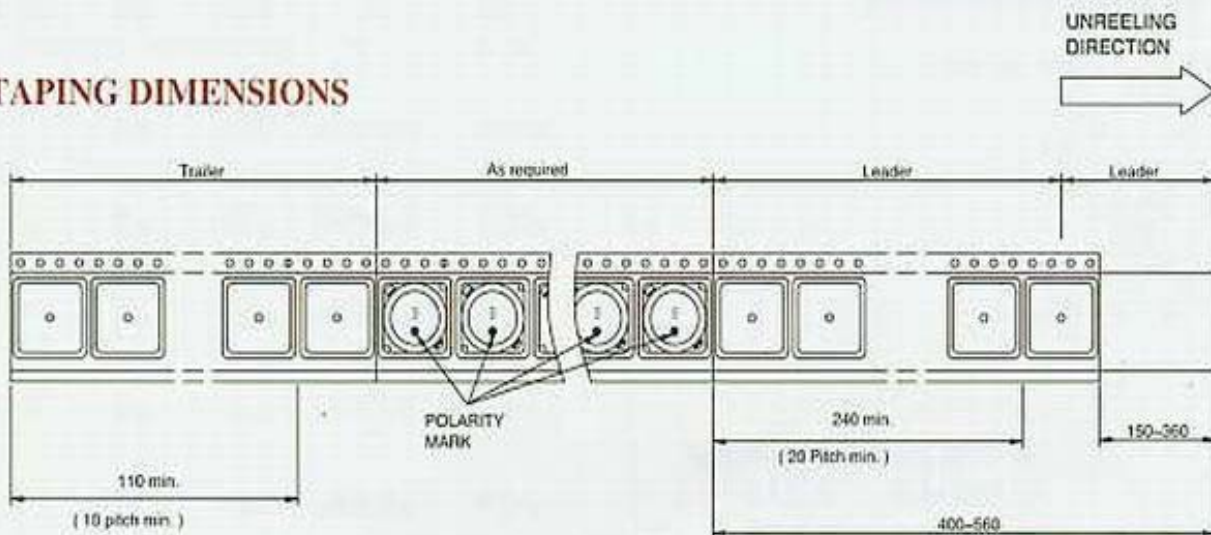
* IDC 2: BASED ON TEMP. ($\Delta T: 40^\circ\text{C}$)

TAPE & REEL SPECIFICATIONS FOR SMI TYPE INDUCTORS

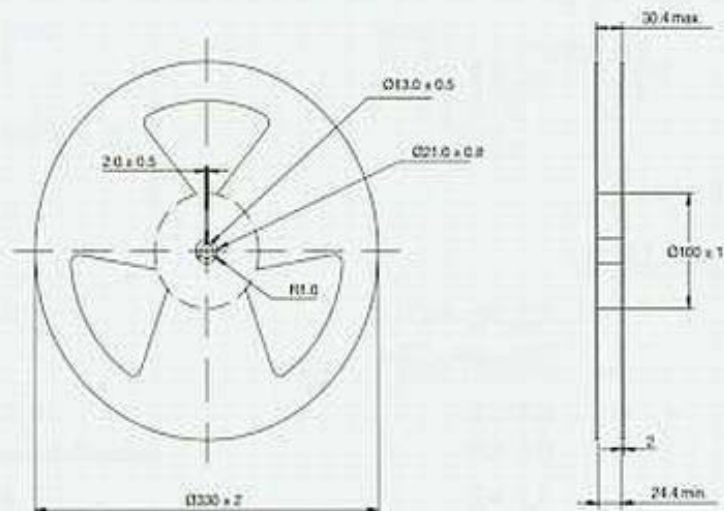
CARRITE TAPE DIMENSIONS



TAPING DIMENSIONS



REEL DIMENSIONS



QUANTITY: 500PCS/R
 OUTER BOX: 4 REEL/BOX
 BOX SIZE: 350*350*130

CHOKE COILS POWER CHIP

PCPS 139405

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS



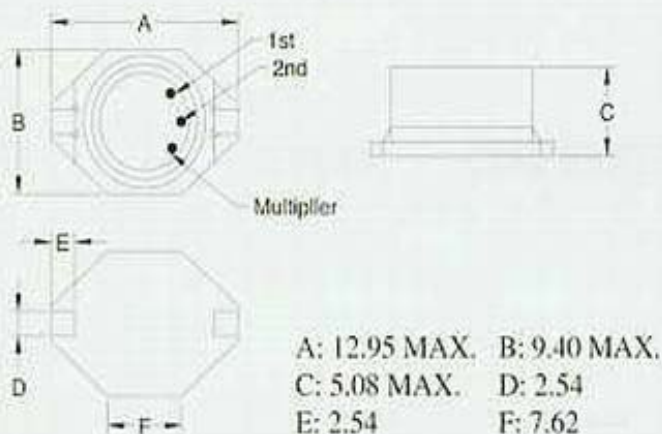
CHARACTERISTICS

1. TESTED AT 100 KHZ, 0.1 VRMS
2. INDUCTANCE DROP=10% TYPE. AT RATED IDC 1
TEMP. 40°C RISE TYPE. AT IDC 2
3. OPERATING TEMPERATURE RANGE -40°C TO +85°C
4. ELECTRICAL SPECIFICATIONS AT 25°C

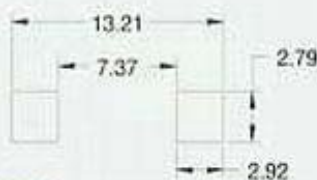
ELECTRICAL SPECIFICATION

ITEM	L (μ H)	DCR MAX.(Ω)	SRF MIN.(MHz)	IDC1 MAX.(A)	IDC2 MAX.(A)
PCPS139405					
1R0M	1.0 \pm 20%	0.021	140	5.6	5.0
1R5M	1.5 \pm 20%	0.022	120	5.2	4.5
2R2M	2.2 \pm 20%	0.032	80	5.0	3.8
3R3M	3.3 \pm 20%	0.039	70	3.9	3.3
4R7M	4.7 \pm 20%	0.054	40	3.2	2.7
6R8M	6.8 \pm 20%	0.075	38	2.8	2.2
100M	10.0 \pm 20%	0.101	35	2.4	2.0
150M	15.0 \pm 20%	0.150	25	2.0	1.5
220M	22.0 \pm 20%	0.207	19	1.6	1.3
330M	33.0 \pm 20%	0.334	15	1.4	1.1
470M	47.0 \pm 20%	0.472	13	1.0	0.8

CONSTRUCTION (m/m)



Land Patterns



COIL CODE

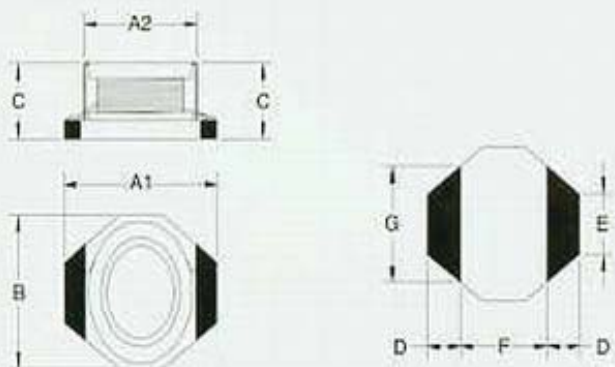
PCPS 139405 - 150 M

- TOLERANCE : \pm 20%
- INDUCTANCE : 15 μ H
- C DIM.
- B DIM.
- A DIM.
- PCPS TYPE

PACKAGE: 500PCS/REEL

CHOKE COILS POWER CHIP

CONSTRUCTION (m/m)



A1: 6.6 MAX. A2: 4.06 B: 4.45 MAX. C: 2.92 MAX.
D: 1.02 E: 1.27 F: 4.32 G: 3.05

ELECTRICAL SPECIFICATION

ITEM	L (μH)	RDC MAX.(Ω)	SRF Min.(MHz)	IDC MAX.(A)
PBP064403				
1R0M	1.0 \pm 20%	0.040	250	3.0
1R5M	1.5 \pm 20%	0.045	125	2.8
2R2M	2.2 \pm 20%	0.050	120	1.8
3R3M	3.3 \pm 20%	0.055	120	1.6
4R7M	4.7 \pm 20%	0.060	105	1.4
6R8M	6.8 \pm 20%	0.065	50	1.2
100M	10 \pm 20%	0.075	38	1.0
150M	15 \pm 20%	0.090	33	0.80
220M	22 \pm 20%	0.11	25	0.70
330M	33 \pm 20%	0.19	20	0.60
470M	47 \pm 20%	0.23	20	0.50
680M	68 \pm 20%	0.29	15	0.40
101M	100 \pm 20%	0.48	10	0.30
151M	150 \pm 20%	0.59	9	0.26
221M	220 \pm 20%	0.77	6	0.22
331M	330 \pm 20%	1.4	5	0.20
471M	470 \pm 20%	1.8	4	0.19
681M	680 \pm 20%	2.2	3	0.18
102M	1000 \pm 20%	3.4	2	0.15
152M	1500 \pm 20%	4.2	2	0.12
222M	2200 \pm 20%	8.5	2	0.10
332M	3300 \pm 20%	11.0	1	0.08
472M	4700 \pm 20%	13.9	1	0.06
682M	6800 \pm 20%	25.0	1	0.04
103M	10000 \pm 20%	32.8	0.8	0.02

CUSTOMERS' SPECIFICATION ARE WELCOME
INDUCTANCE RANGE 1.0 μH -10mH

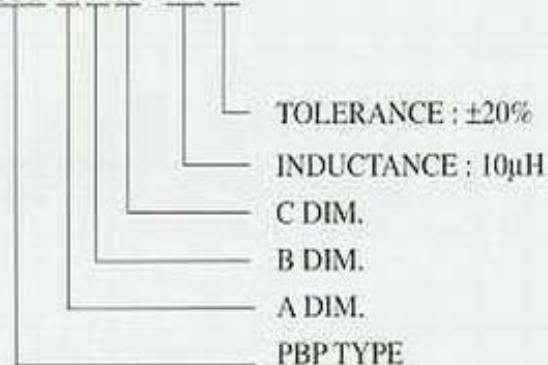
PBP 064403



SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

COIL CODE

PBP 064403 - 100 M



CHARACTERISTICS

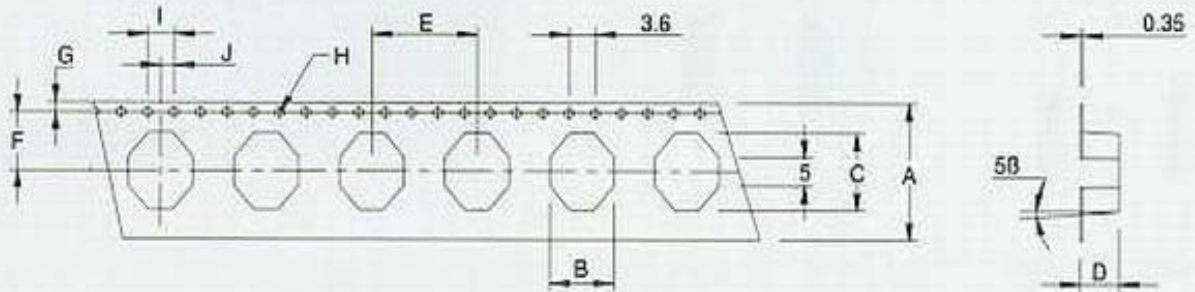
- TESTED AT 100 KHz, 0.1 VRMS
- OPERATING TEMPERATURE RANGE :
-40°C TO +85°C
- ELECTRICAL SPECIFICATIONS AT 25°C

PACKAGE: 1000PCS/REEL

CHOKER

TAPE & REEL SPECIFICATIONS

PCPS139405

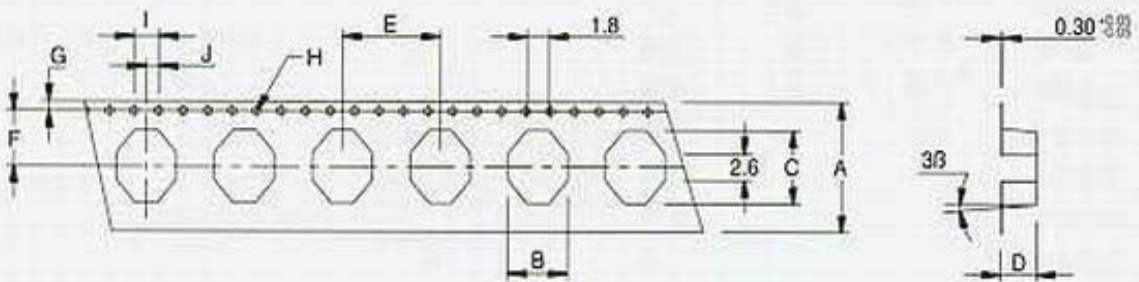


DIMENSIONS

Unit: m/m

A	B	C	D	E	F	G	H	I	J
24 ±0.3	9.8 ±0.1	13.6 ±0.1	5.6 ±0.1	1.6 ±0.1	11.5 ±0.1	1.75 ±0.1	1.5 ±0.1	4 ±0.1	2 ±0.1

PBP064403



DIMENSIONS

Unit: m/m

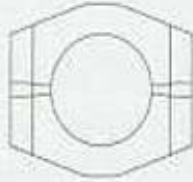
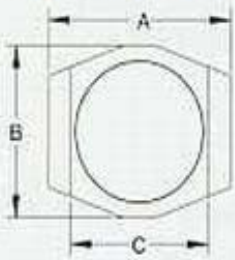
A	B	C	D	E	F	G	H	I	J
16 ±0.3	4.4 ±0.1	6.7 ±0.1	3 ±0.1	8 ±0.1	7.5 ±0.1	1.75 ±0.1	1.50 ±0.1	4 ±0.1	2 ±0.1

CHOKE COILS POWER CHIP

SPECIALIZE IN HIGH CURRENT & HIGH
INDUCTANCE FOR SMD INDUCTORS

SCL 908016

CONSTRUCTION (m/m)



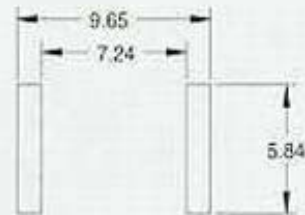
A: 9.14 MAX B: 7.87 MAX
C: 7.24 MAX



ELECTRICAL SPECIFICATION

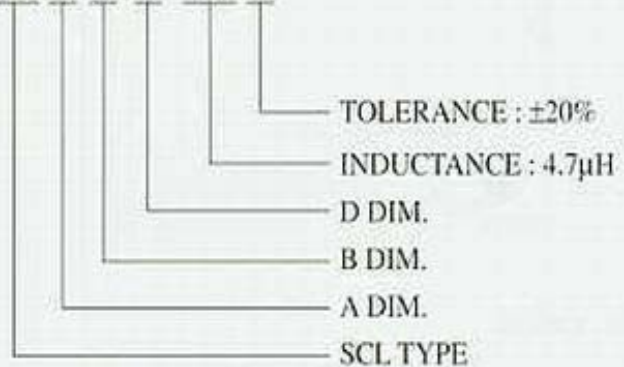
ITEM	L	DCR	SRF	IDC
SCL908016	(μ H)	MAX.(Ω)	MHZ.(MIN.)	MAX.(A)
4R7M	4.7 \pm 20%	0.12	70	1.8
6R8M	6.8 \pm 20%	0.14	54	1.4
100M	10 \pm 20%	0.23	42	1.1
150M	15 \pm 20%	0.27	33	0.95
220M	22 \pm 20%	0.38	25	0.75
330M	33 \pm 20%	0.59	17	0.65
470M	47 \pm 20%	0.77	14	0.55
680M	68 \pm 20%	1.2	11	0.45
101M	100 \pm 20%	1.6	9	0.35
151M	150 \pm 20%	2.3	8	0.28
221M	220 \pm 20%	3.5	7	0.24
331M	330 \pm 20%	5.3	6	0.20
471M	470 \pm 20%	8.2	5	0.17
681M	680 \pm 20%	11	4	0.14
102M	1000 \pm 20%	18	3	0.12

Land Patterns



COIL CODE

SCL 90 80 16 - 4R7 M



CHARACTERISTICS

- TESTED AT 100KHZ, 0.1VRMS
- OPERATING TEMPERATURE RANGE: -40°C TO+85°C
- ELECTRICAL SPECIFICATIONS AT 25°C

CHOKE COILS POWER CHIP

SDR 655312

SPECIALIZE IN HIGH CURRENT & HIGH INDUCTANCE FOR SMD INDUCTORS

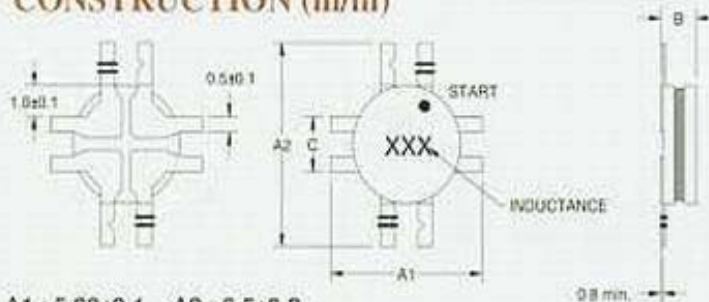
CHARACTERISTICS

1. TESTED AT 1KHZ, 1.0VRMS
2. OPERATING TEMPERATURE RANGE: -40°C TO +85°C
3. ELECTRICAL SPECIFICATIONS AT 25°C

ELECTRICAL SPECIFICATION

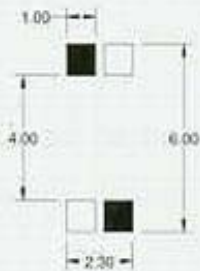
ITEM SDR655312	L (μ H)	DCR MAX.(Ω)	IDC1. MAX.(A)
2R2M	2.2 \pm 20%	0.117	1.20
3R3M	3.3 \pm 20%	0.186	0.96
4R7M	4.7 \pm 20%	0.228	0.90
6R8M	6.8 \pm 20%	0.288	0.80
100M	10 \pm 20%	0.450	0.60
160M	16 \pm 20%	0.552	0.60
220M	22 \pm 20%	0.780	0.50
330M	33 \pm 20%	1.098	0.42
470M	47 \pm 20%	1.656	0.34

CONSTRUCTION (m/m)



A1 : 5.30 \pm 0.1 A2 : 6.5 \pm 0.2
B : 1.25 MAX.

Land Patterns



COIL CODE

SDR 65 53 12 - 2R2 M

TOLERANCE : \pm 20%
INDUCTANCE : 2.2 μ H
B DIM.
A1 DIM.
A2 DIM.
SDR TYPE

MULTILAYER CHIP INDUCTORS

PRODUCT IDENTIFICATION

MLI □□ □□ □□ — □□□ □ □

(A) (B) (C)

Packaging style: B=Bulk, T=Tape & Reel

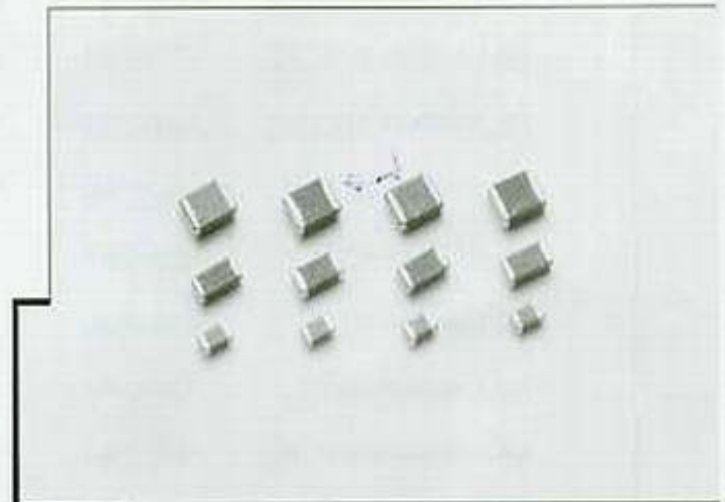
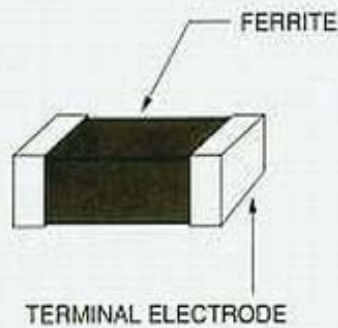
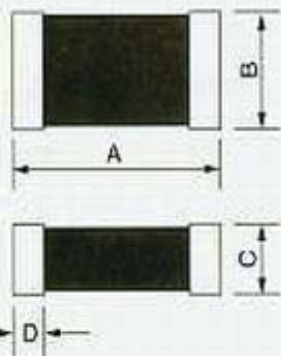
Tolerance

Inductance

Dimensions: Length (A) x Width (B) x Thickness (C)

Product Symbol: Multilayer Chip Inductors.

SHAPE AND DIMENSION



Dimensions : m/m (inch)

TYPE	A	B	C	D
MLI 160808 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.5±0.3 (0.020±0.012)
MLI 160812 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	1.2±0.2 (0.047±0.008)	0.5±0.3 (0.020±0.012)
MLI 201209 (0805)	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
MLI 201212 (0805)	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	1.2±0.2 (0.047±0.008)	0.5±0.3 (0.020±0.012)
MLI 321611 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.1±0.2 (0.043±0.008)	0.5±0.3 (0.020±0.012)
MLI 321616 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.3 (0.020±0.012)

MATERIAL CHARACTERISTICS

ITEM	UNIT	STANDARD VALUE			
Material Code	—	B	U	Z	G
Initial Permeability (μiac)	—	45	200	500	110
Maximum Permeability (mm)	—	125	450	900	250
Saturation Flux Density at 10 Oe	Gauss	2000	1400	1500	1700
Curie Temperature	°C	>200	>130	>100	>130
Volume Resistivity	Ω-m	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Temperature Coefficient	10 ⁻⁶ /°C	10	13	5	12
Density	g/cm ³	4.8	4.8	4.8	4.8

MULTILAYER CHIP INDUCTORS

PART NO. *1 *2	INDUCTANCE (μ H)	Q MIN	LQ TEST FREQUENCY (MHz)	SELF-RESONANT FREQUENCY (MHz)MIN	DC RESISTANCE (Ω) MAX	RATED CURRENT (mA)MAX
MLI-160808-47N □ ○	0.047 \pm 20%	10	50	260	0.30	50
MLI-160808-68N □ ○	0.068 \pm 20%	10	50	250	0.30	50
MLI-160808-82N □ ○	0.082 \pm 20%	10	50	245	0.30	50
MLI-160808-R10 □ ○	0.10 \pm 20%	15	25	240	0.50	50
MLI-160808-R12 □ ○	0.12 \pm 20%	15	25	205	0.50	50
MLI-160808-R15 □ ○	0.15 \pm 20%	15	25	180	0.60	50
MLI-160808-R18 □ ○	0.18 \pm 20%	15	25	165	0.60	50
MLI-160808-R22 □ ○	0.22 \pm 20%	15	25	150	0.80	50
MLI-160808-R27 □ ○	0.27 \pm 20%	15	25	136	0.80	50
MLI-160808-R33 □ ○	0.33 \pm 20%	15	25	125	0.85	35
MLI-160808-R39 □ ○	0.39 \pm 20%	15	25	110	1.00	35
MLI-160808-R47 □ ○	0.47 \pm 20%	15	25	105	1.35	35
MLI-160808-R56 □ ○	0.56 \pm 20%	15	25	95	1.55	35
MLI-160808-R68 □ ○	0.68 \pm 20%	15	25	90	1.70	35
MLI-160808-R82 □ ○	0.82 \pm 20%	15	25	85	2.10	35
MLI-160808-1R0 □ ○	1.0 \pm 20%	35	10	75	0.60	25
MLI-160808-1R2 □ ○	1.2 \pm 20%	35	10	65	0.80	25
MLI-160808-1R5 □ ○	1.5 \pm 20%	35	10	60	0.80	25
MLI-160808-1R8 □ ○	1.8 \pm 20%	35	10	55	0.95	25
MLI-160808-2R2 □ ○	2.2 \pm 20%	35	10	50	1.15	15
MLI-160808-2R7 □ ○	2.7 \pm 20%	35	10	45	1.35	15
MLI-160808-3R3 □ ○	3.3 \pm 20%	35	10	40	1.55	15
MLI-160808-3R9 □ ○	3.9 \pm 20%	35	10	35	1.70	15
MLI-160808-4R7 □ ○	4.7 \pm 20%	35	10	33	2.10	15
MLI-160808-5R6 □ ○	5.6 \pm 20%	35	4	22	1.55	5

*1. 47N means 47nH or 0.047 μ H

*2. □ : Means the inductance tolerance. M = \pm 20%, K = \pm 10%, J = \pm 5%

○ : Means packaging style

MULTILAYER CHIP INDUCTORS

PART NO. *1 *2	INDUCTANCE	Q	LQ TEST	SELF-RESONANT	DC	RATED
	(μ H)	MIN	FREQUENCY (MHz)	FREQUENCY (MHz)MIN	RESISTANCE (Ω) MAX	CURRENT (mA)MAX
MLI-201209-47N □○	0.047 \pm 20%	15	50	320	0.20	300
MLI-201209-68N □○	0.068 \pm 20%	15	50	280	0.20	300
MLI-201209-82N □○	0.082 \pm 20%	15	50	255	0.20	300
MLI-201209-R10 □○	0.10 \pm 20%	20	25	235	0.30	250
MLI-201209-R12 □○	0.12 \pm 20%	20	25	220	0.30	250
MLI-201209-R15 □○	0.15 \pm 20%	20	25	200	0.40	250
MLI-201209-R18 □○	0.18 \pm 20%	20	25	185	0.40	250
MLI-201209-R22 □○	0.22 \pm 20%	20	25	170	0.50	250
MLI-201209-R27 □○	0.27 \pm 20%	20	25	150	0.50	250
MLI-201209-R33 □○	0.33 \pm 20%	20	25	145	0.55	250
MLI-201209-R39 □○	0.39 \pm 20%	25	25	135	0.65	200
MLI-201209-R47 □○	0.47 \pm 20%	25	25	125	0.65	200
MLI-201209-R56 □○	0.56 \pm 20%	25	25	115	0.75	150
MLI-201209-R68 □○	0.68 \pm 20%	25	25	105	0.80	150
MLI-201209-R82 □○	0.82 \pm 20%	25	25	100	1.00	150
MLI-201209-1R0 □○	1.0 \pm 20%	45	10	75	0.40	50
MLI-201209-1R2 □○	1.2 \pm 20%	45	10	65	0.50	50
MLI-201209-1R5 □○	1.5 \pm 20%	45	10	60	0.50	50
MLI-201209-1R8 □○	1.8 \pm 20%	45	10	55	0.60	50
MLI-201209-2R2 □○	2.2 \pm 20%	45	10	50	0.65	30
MLI-201212-2R7 □○	2.7 \pm 20%	45	10	45	0.75	30
MLI-201212-3R3 □○	3.3 \pm 20%	45	10	41	0.80	30
MLI-201212-3R9 □○	3.9 \pm 20%	45	10	38	0.90	30
MLI-201212-4R7 □○	4.7 \pm 20%	45	10	35	1.00	30
MLI-201212-5R6 □○	5.6 \pm 20%	50	4	32	0.90	15
MLI-201212-6R8 □○	6.8 \pm 20%	50	4	29	1.00	15
MLI-201212-8R2 □○	8.2 \pm 20%	50	4	26	1.10	15
MLI-201212-100 □○	10 \pm 20%	50	2	24	1.15	15
MLI-201212-120 □○	12 \pm 20%	50	2	22	1.25	15
MLI-201212-150 □○	15 \pm 20%	30	1	19	0.80	5
MLI-201212-180 □○	18 \pm 20%	30	1	18	0.90	5
MLI-201212-220 □○	22 \pm 20%	30	1	16	1.10	5
MLI-201212-270 □○	27 \pm 20%	30	1	14	1.15	5
MLI-201212-330 □○	33 \pm 20%	30	0.4	13	1.25	5
MLI-201212-390 □○	39 \pm 20%	35	2	8	2.90	4
MLI-201212-470 □○	47 \pm 20%	35	2	7.5	3.00	4
MLI-201212-560 □○	56 \pm 20%	35	2	7	3.10	4

*1. 47N means 47nH or 0.047 μ H

*2. □: Means the inductance tolerance, M = \pm 20%, K = \pm 10%, J = \pm 5%.

○: Means packaging style

MULTILAYER CHIP INDUCTORS

PART NO. *1 *2	INDUCTANCE (μ H)	Q MIN	LQ TEST FREQUENCY (MHz)	SELF-RESONANT FREQUENCY (MHz)MIN	DC RESISTANCE (Ω) MAX	RATED CURRENT (mA)MAX
MLI-321611-47N □○	0.047 \pm 20%	20	50	320	0.15	300
MLI-321611-68N □○	0.068 \pm 20%	20	50	280	0.25	300
MLI-321611-R10 □○	0.10 \pm 20%	20	25	235	0.25	250
MLI-321611-R12 □○	0.12 \pm 20%	20	25	220	0.30	250
MLI-321611-R15 □○	0.15 \pm 20%	20	25	200	0.30	250
MLI-321611-R18 □○	0.18 \pm 20%	20	25	185	0.40	250
MLI-321611-R22 □○	0.22 \pm 20%	20	25	170	0.40	250
MLI-321611-R27 □○	0.27 \pm 20%	20	25	150	0.50	250
MLI-321611-R33 □○	0.33 \pm 20%	20	25	145	0.60	250
MLI-321611-R39 □○	0.39 \pm 20%	25	25	135	0.50	200
MLI-321611-R47 □○	0.47 \pm 20%	25	25	125	0.60	200
MLI-321611-R56 □○	0.56 \pm 20%	25	25	115	0.70	150
MLI-321611-R68 □○	0.68 \pm 20%	25	25	105	0.80	150
MLI-321611-R82 □○	0.82 \pm 20%	25	25	100	0.90	150
MLI-321611-1R0 □○	1.0 \pm 20%	45	10	75	0.40	100
MLI-321611-1R2 □○	1.2 \pm 20%	45	10	65	0.50	100
MLI-321611-1R5 □○	1.5 \pm 20%	45	10	60	0.50	50
MLI-321611-1R8 □○	1.8 \pm 20%	45	10	55	0.50	50
MLI-321611-2R2 □○	2.2 \pm 20%	45	10	50	0.60	50
MLI-321611-2R7 □○	2.7 \pm 20%	45	10	45	0.60	50
MLI-321611-3R3 □○	3.3 \pm 20%	45	10	41	0.70	50
MLI-321611-3R9 □○	3.9 \pm 20%	45	10	38	0.80	50
MLI-321611-4R7 □○	4.7 \pm 20%	45	10	35	0.90	50
MLI-321611-5R6 □○	5.6 \pm 20%	50	4	32	0.70	25
MLI-321611-6R8 □○	6.8 \pm 20%	50	4	29	0.80	25
MLI-321611-8R2 □○	8.2 \pm 20%	50	4	26	0.90	25
MLI-321611-100 □○	10 \pm 20%	50	2	24	1.00	25
MLI-321611-120 □○	12 \pm 20%	50	2	22	1.05	15
MLI-321611-150 □○	15 \pm 20%	35	1	19	0.70	5
MLI-321611-180 □○	18 \pm 20%	35	1	18	0.70	5
MLI-321611-220 □○	22 \pm 20%	35	1	16	0.90	5
MLI-321611-270 □○	27 \pm 20%	35	1	14	0.90	5
MLI-321611-330 □○	33 \pm 20%	35	0.4	13	1.05	5
MLI-321616-390 □○	39 \pm 20%	40	2	11	3.00	10
MLI-321616-470 □○	47 \pm 20%	40	2	10	3.40	10
MLI-321616-560 □○	56 \pm 20%	40	2	9.5	3.80	4

*1. 47N means 47nH or 0.047 μ H

*2. □ : Means the inductance tolerance. M = \pm 20%, K = \pm 10%, J = \pm 5%

○ : Means packaging style

MULTILAYER CHIP INDUCTORS

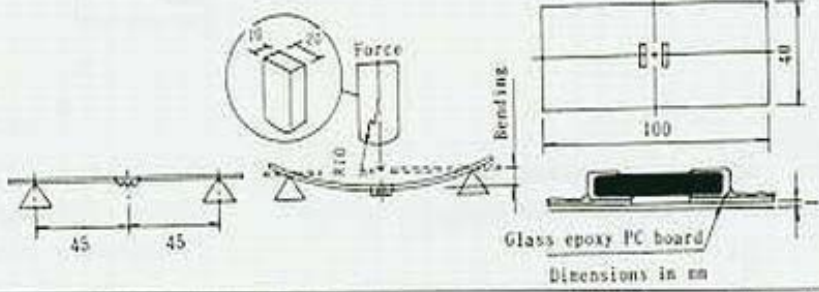
RELIABILITY AND TEST CONDITIONS

Item	Performance	Test condition
Operating temperature range	-25 to +85°C	
Storage temperature and humidity ranges	40°C max., 70%RH max	
Soldering heat resistance	The chip shall not be cracked More than 75% of terminal electrode shall be covered with solder Impedance: Within $\pm 5\%$ of the initial value	Preheat: 150°C, 60 seconds Solder: H63A Solder temperature: 260 \pm 5°C Flux: Rosin Dip time: 10 \pm 1 seconds
Solderability	More than 90% of the terminal electrode shall be covered with new solder	Preheat: 150°C, 60 seconds Solder: H63A Solder temperature: 230 \pm 5°C Flux: Rosin Dip time: 4 \pm 1 seconds

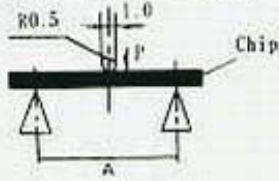
Terminal strength	The terminal electrode and the ferrite shall not be damaged by the forces applied on the right conditions	TYPE	P (kgf)	TIME (S)
		ML1160808	0.5	
		ML1160812	0.6	
		ML1201209	0.6	
		ML1201212	0.8	30 \pm 5
		ML1321611	1.0	
		ML1321616	1.0	
		ML1322513	1.0	



Flexure strength	The terminal electrode and the ferrite shall not be damaged by the forces applied on the right conditions	After soldering a chip to a test substrate, bend the substrate by 2mm and then return. Soldering shall be done in accordance with the recommended PC board pattern and reflow soldering
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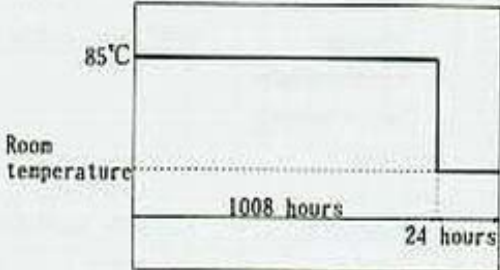
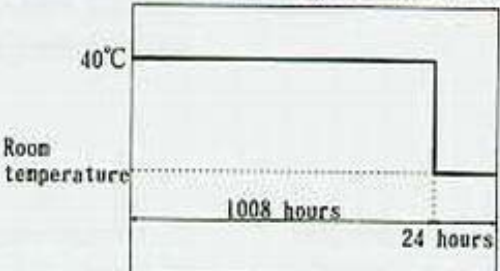
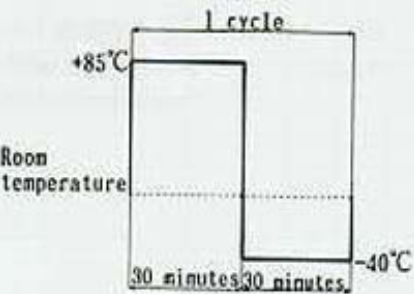
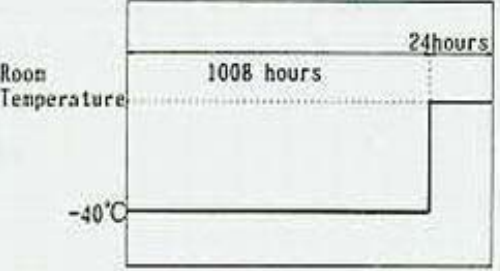


Bending strength	The ferrite shall not be damaged by the forces applied on the right conditions	TYPE	A (mm)	P (kgf)
		ML1160808	1.0	0.5
	ML1160812	1.0	0.5	
	ML1201209	1.4	1.0	
	ML1201212	1.4	1.0	
	ML1321611	2.0	2.0	
	ML1321616	2.0	2.5	
	ML1322513	2.0	2.5	



MULTILAYER CHIP INDUCTORS

RELIABILITY AND TEST CONDITIONS

Item	Performance	Test condition
High temperature resistance	Appearance: Ferrite shall not be damaged. Inductance: Within $\pm 5\%$ of the initial value. Q: Within $\pm 30\%$ of the initial value.	Temperature: $85 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours Measurement: After placing for 24 hours min. 
Humidity resistance	Appearance: Ferrite shall not be damaged. Inductance: Within $\pm 5\%$ of the initial value. Q: Within $\pm 30\%$ of the initial value.	Humidity: 90 to 95% RH Temperature: $40 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours Measurement: After placing for 24 hours min. 
Thermal Shock	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Inductance: Within $\pm 5\%$ of the initial value. Q: Within $\pm 30\%$ of the initial value.	Temperature: -40°C , $+85^\circ\text{C}$, kept stabilized for 30 minutes each Cycle: 100 cycles Measurement: After placing for 24 hours min. 
Low temperature storage life test	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Q: Within $\pm 30\%$ of the initial value.	Temperature: $-40 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours Measurement: After placing for 24 hours min. 

MULTILAYER CHIP BEADS

PRODUCT IDENTIFICATION

MLB □□ □□ □□ — □ □□□ □

(A) (B) (C)

Packaging Style: B=Bulk, T=Tape & Reel

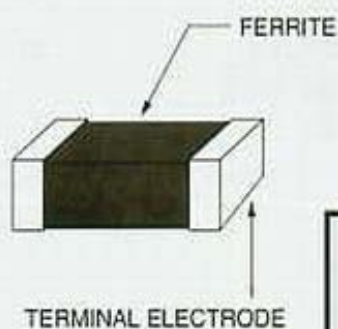
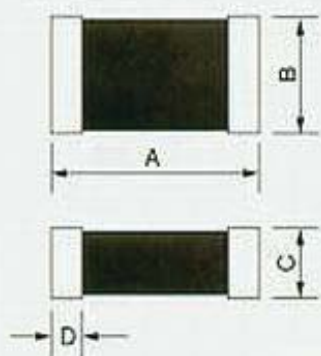
Impedance : abc=ab x 10^c Ω

Material Code :

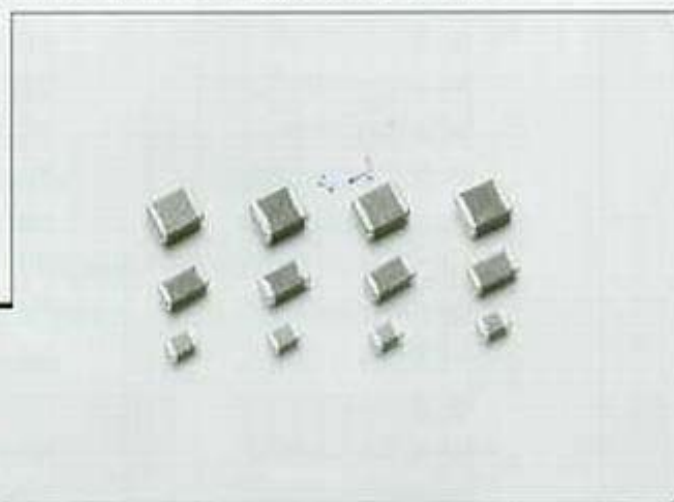
Dimensions: Length (A) x Width (B) x Thickness (C)

Product Symbol: Multilayer Chip Inductors.

SHAPE AND DIMENSION



Dimensions : m/m (inch)



TYPE	A	B	C	D
MLB453215 (1812)	4.5±0.2 (0.177±0.008)	3.2±0.2 (0.126±0.008)	1.5±0.2 (0.059±0.008)	0.5±0.3 (0.020±0.012)
MLB451616 (1806)	4.5±0.2 (0.177±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.3 (0.020±0.012)
MLB322513 (1210)	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.3±0.2 (0.051±0.008)	0.5±0.3 (0.020±0.012)
MLB321616 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.3 (0.020±0.012)
MLB321611 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	1.1±0.2 (0.043±0.008)	0.5±0.3 (0.020±0.012)
MLB201209 (0805)	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
MLB160808 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.5±0.3 (0.020±0.012)

MATERIAL CHARACTERISTICS

ITEM	UNIT	STANDARD VALUE			
Material Code	-	B	U	Z	G
Initial Permeability	μiac	45	200	500	110
Maximum Permeability	μm	125	450	900	250
Saturation Flux Density at 10 Oe	Gauss	2000	1400	1500	1700
Curie Temperature	°C	>200	>130	>100	>130
Volume Resistivity	Ω·m	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Temperature Coefficient	10 ⁻⁶ /°C	10	13	5	12
Density	g/cm ³	4.8	4.8	4.8	4.8

MULTILAYER CHIP BEADS

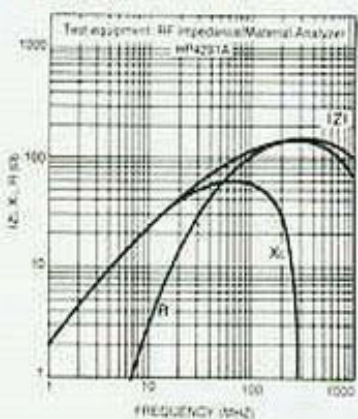
ELECTRICAL SPECIFICATION

PART NO.	IMPEDANCE (Ω) AT 100MHZ	DC RESISTANCE (Ω) MAX.	RATED CURRENT (mA) MAX.
MLB453215U131 □*	125±25%	0.4	300
MLB453215Z131 □	130±25%	0.4	300
MLB453215U121 □	120±25%	0.4	300
MLB453215B700 □	70±25%	0.4	300
MLB451616U600 □	60±25%	0.3	300
MLB451616Z520 □	52±25%	0.3	300
MLB451616B310 □	31±25%	0.3	300
MLB322513U600 □	60±25%	0.3	400
MLB322513Z520 □	52±25%	0.3	400
MLB322513B310 □	31±25%	0.3	400
MLB321616U500 □	50±25%	0.5	200
MLB321616Z700 □	70±25%	0.5	200
MLB321611U202 □	2000±25% (at 30 MHz)	2.1	100
MLB321611U122 □	1200±25% (at 50 MHz)	1.6	100
MLB321611U601 □	600±25%	1.3	200
MLB321611U310 □	31±25%	0.2	500
MLB321611Z601 □	600±25%	1.3	200
MLB321611Z260 □	26±25%	0.2	500
MLB321611B401 □	400±25%	0.6	300
MLB321611B221 □	220±25%	0.5	300
MLB321611B151 □	150±25%	0.4	400
MLB321611B121 □	120±25%	0.4	400
MLB321611B190 □	19±25%	0.2	500
MLB201209U102 □	1000±25%	1.5	100
MLB201209U601 □	600±25%	1.3	100
MLB201209U800 □	80±25%	0.4	400
MLB201209U170 □	17±25%	0.2	500
MLB201209U110 □	11±25%	0.1	600
MLB201209Z301 □	300±25%	0.9	200
MLB201209Z151 □	150±25%	0.5	300
MLB201209Z121 □	120±25%	0.5	300
MLB201209Z700 □	70±25%	0.4	400
MLB201209Z100 □	10±25%	0.1	600
MLB201209B070 □	7±25%	0.1	600
MLB160808U301 □	300±25%	1.2	150
MLB160808U221 □	220±25%	1.0	150
MLB160808U121 □	120±25%	0.7	200
MLB160808U800 □	80±25%	0.5	300
MLB160808U400 □	40±25%	0.3	400

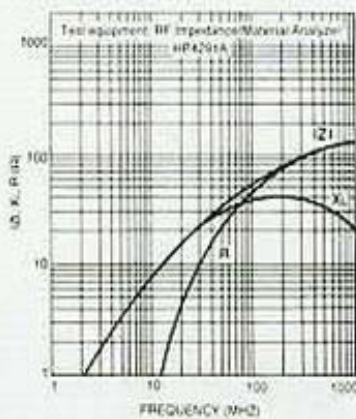
□* : Means packaging style

MULTILAYER CHIP BEADS

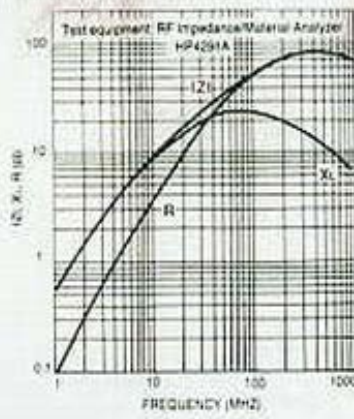
MLB 453215 U131



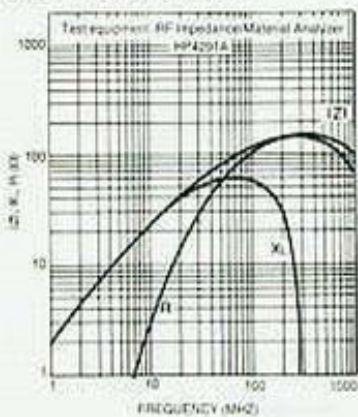
MLB 453216 U600



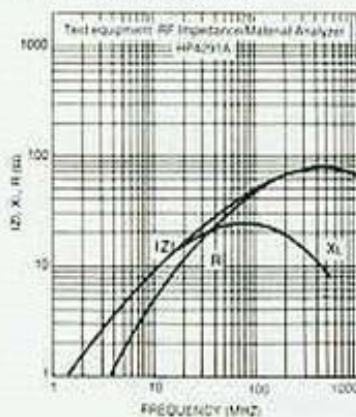
MLB 322513 Z520



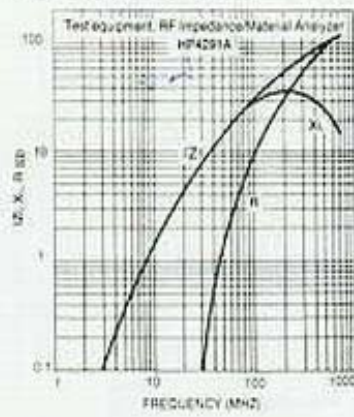
MLB 453215 Z131



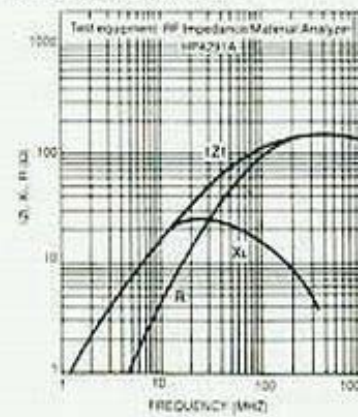
MLB 451616 U600



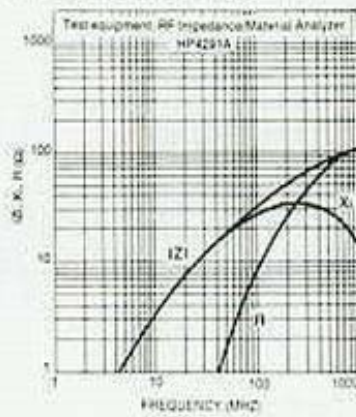
MLB 322513 B310



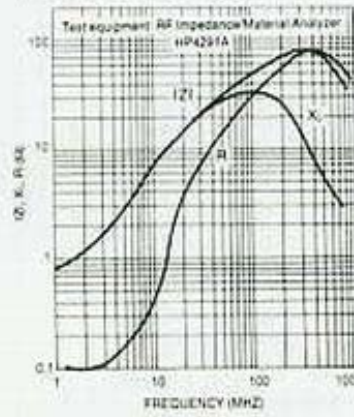
MLB 453215 Z121



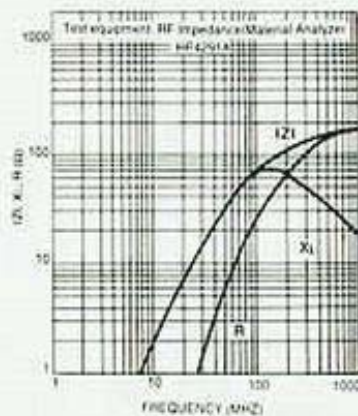
MLB 451616 B310



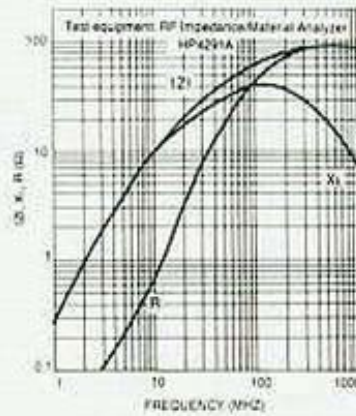
MLB 321616 U500



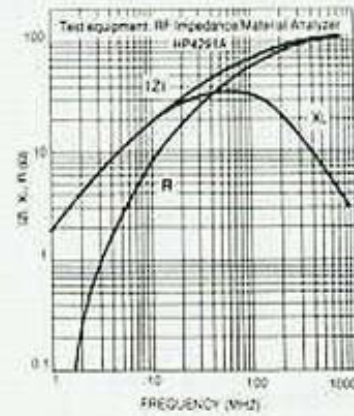
MLB 453215 B700



MLB 322513 U600

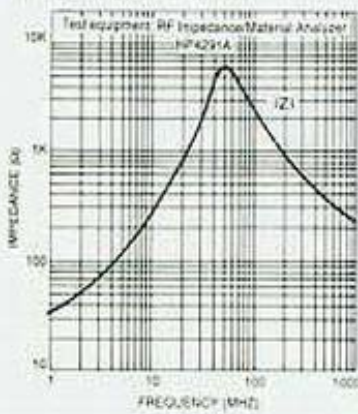


MLB 321616 Z700

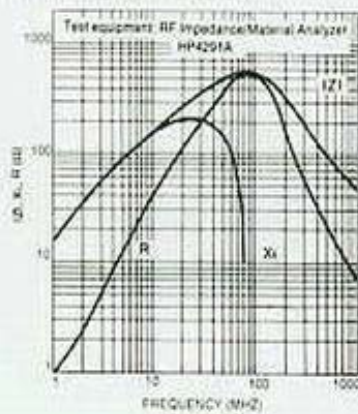


MULTILAYER CHIP BEADS

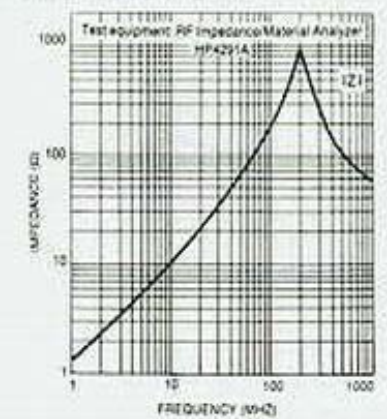
MLB 321611 U202



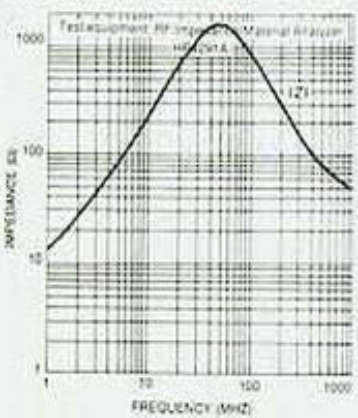
MLB 321611 Z601



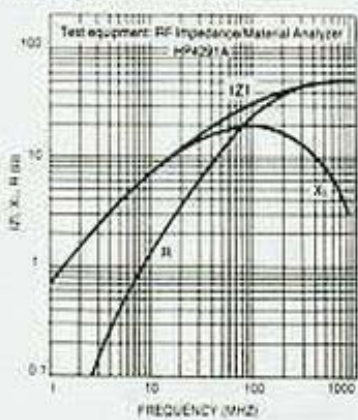
MLB 321611 B151



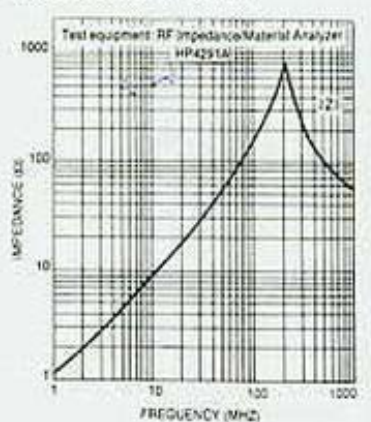
MLB 321611 U122



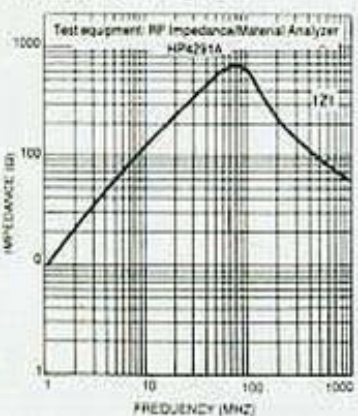
MLB 321611 Z260



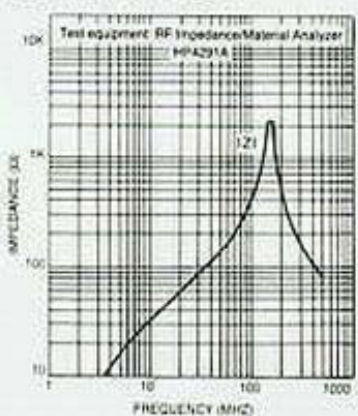
MLB 321611 B121



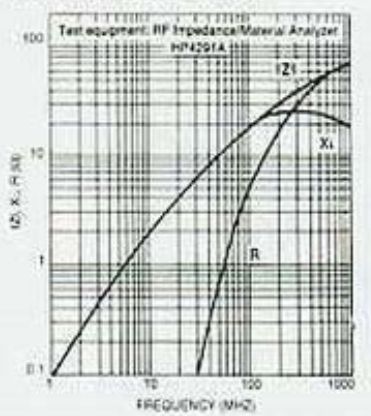
MLB 321611 U601



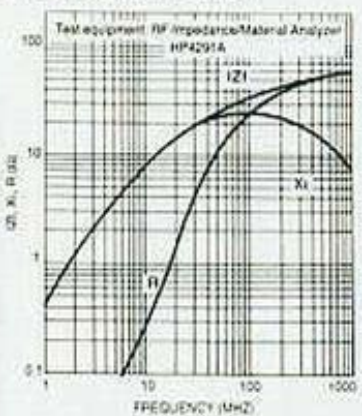
MLB 321611 B401



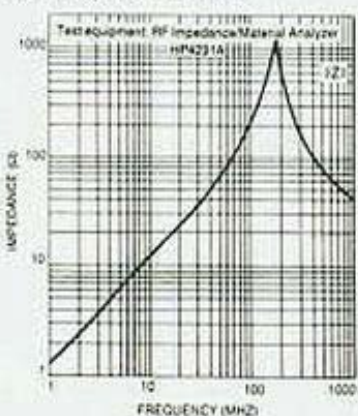
MLB 321611 B190



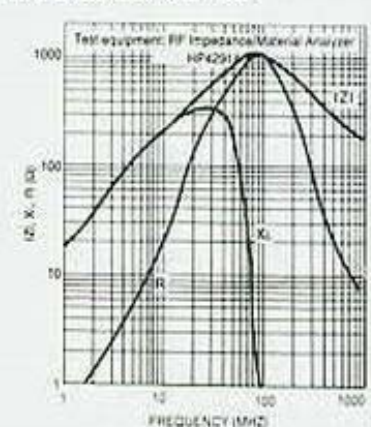
MLB 321611 U310



MLB 321611 B221

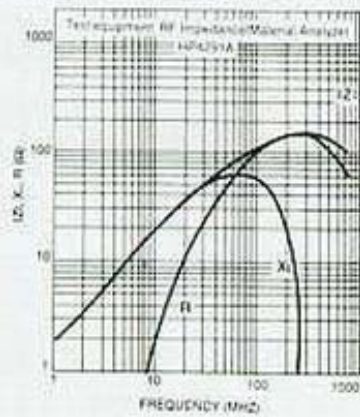


MLB 201209 U102

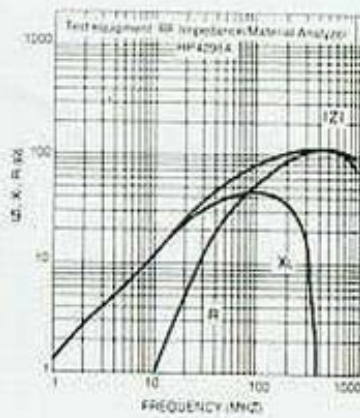


MULTILAYER CHIP BEADS

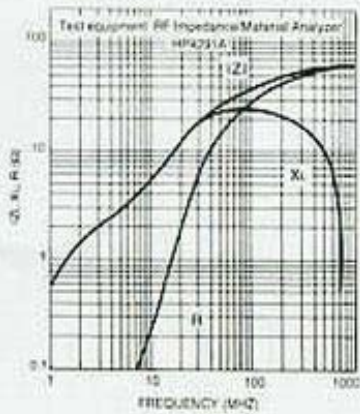
MLB 160808 U121



MLB 160808 U800

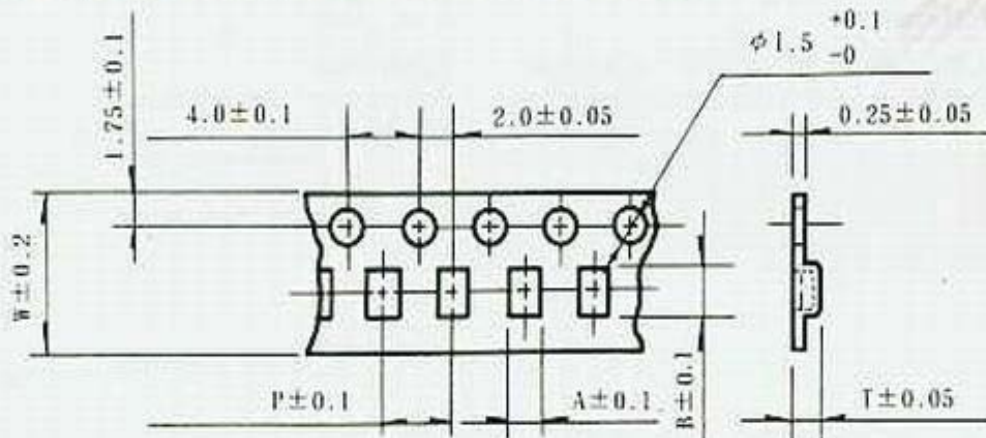


MLB 160808 U400



PACKING

TAPE DIMENSIONS AND PACKING QUANTITY

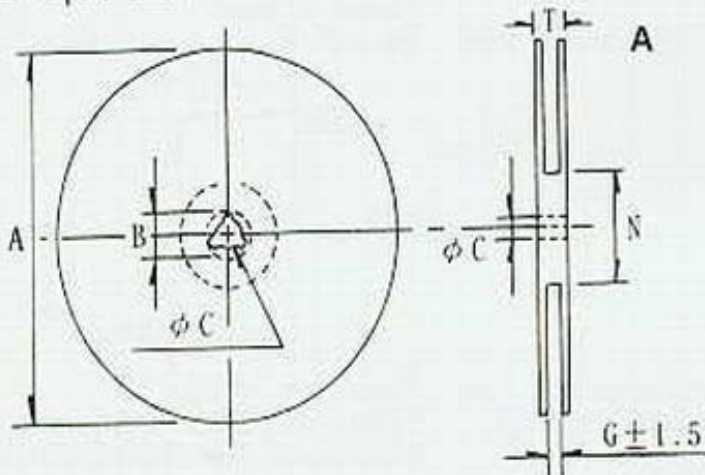


Dimensions : mm

TYPE	A	B	W	P	T	CHIPS / REEL
MLB453215	3.6	4.9	12	8	1.9	1000
MLB451616	1.9	4.9	12	4	2.0	2000
MLB322513	2.9	3.6	8	4	1.7	2000
MLB321616	1.9	3.5	8	4	2.0	2000
MLB321611	1.9	3.5	8	4	1.5	3000
MLB201209	1.5	2.3	8	4	1.3	4000
MLB160808	1.1	1.9	8	4	1.1	4000

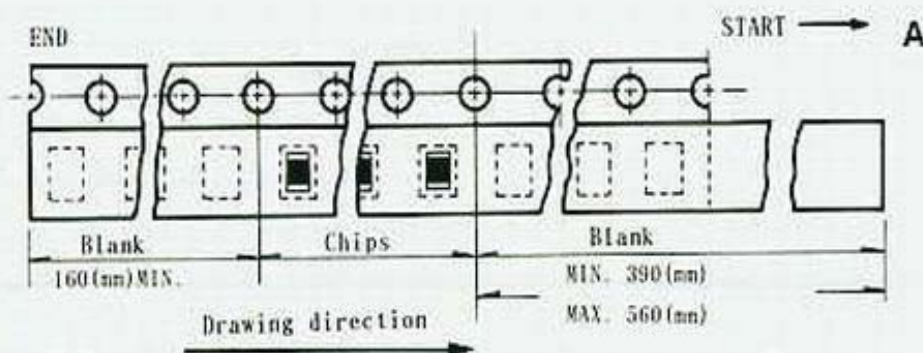
REEL DIMENSIONS

Material : Paper, Plastic



Dimensions : mm

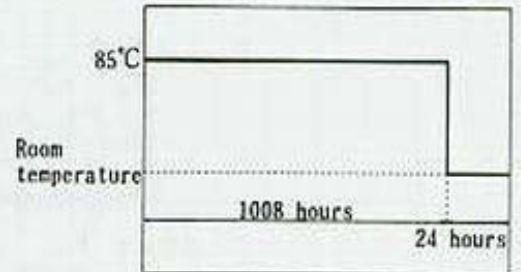
TYPE	8mm	12mm
A	178±2	178±2
B	21.0±0.8	21.0±0.8
C	13.0±0.8	13.0±0.8
G	10.0	14.0
N	75	75
T	12.5	16.5



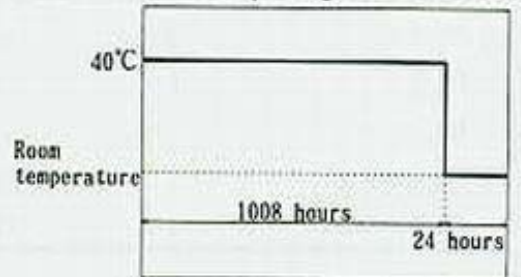
MULTILAYER CHIP BEADS

RELIABILITY AND TEST CONDITIONS

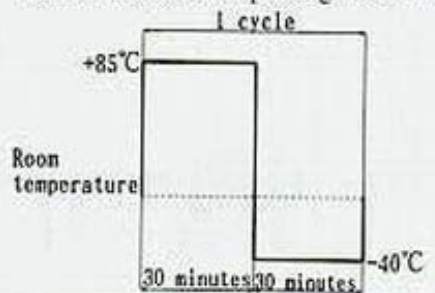
Item	Performance	Test condition
High temperature resistance	Appearance: Ferrite shall not be damaged. Impedance: Within $\pm 20\%$ of the initial value.	Temperature: $85 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours Measurement: After placing for 24 hours min.



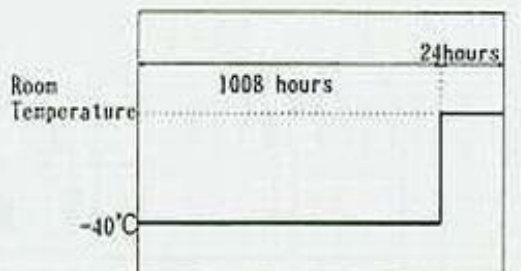
Humidity resistance	Appearance: Ferrite shall not be damaged. Impedance: Within $\pm 20\%$ of the initial value.	Humidity: 90 to 95% RH Temperature: $40 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours Measurement: After placing for 24 hours min.
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Thermal shock	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within $\pm 20\%$ of the initial value.	Temperature: -40°C , $+85^\circ\text{C}$, kept stabilized for 30 minutes each Cycle: 100 cycles Measurement: After placing for 24 hours min.
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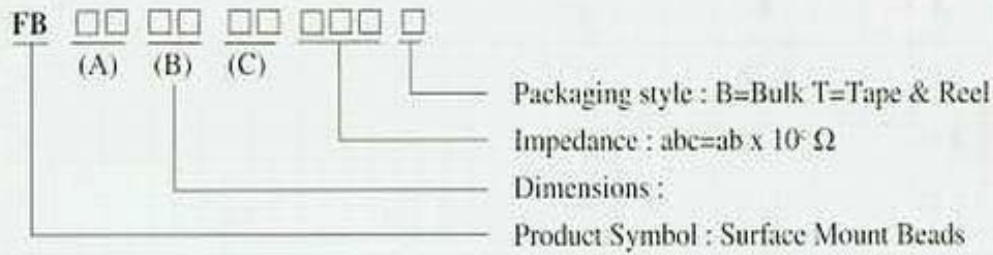


Low temperature storage life test	Appearance: Cracking, chipping or any other defects harmful to the characteristics shall not be allowed. Impedance: Within $\pm 20\%$ of the initial value.	Temperature: $-40 \pm 2^\circ\text{C}$ Testing time: 1008 ± 12 hours min. Measurement: After placing for 24 hours min.
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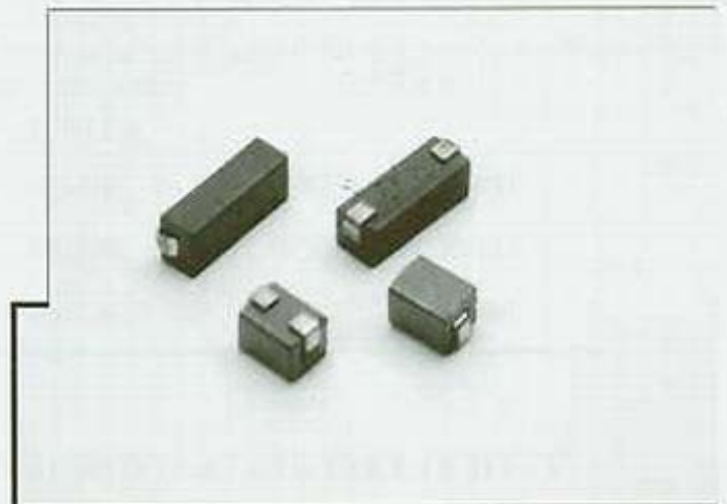
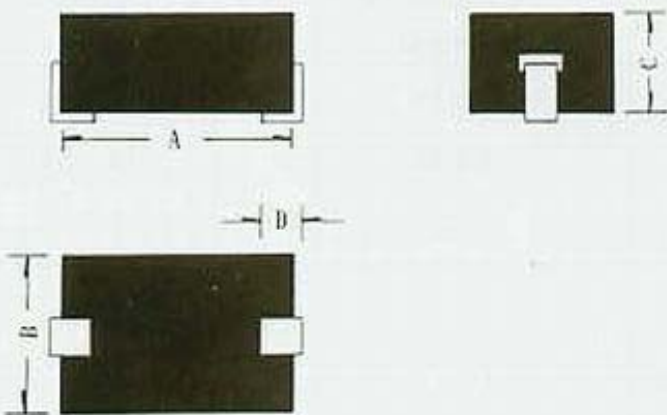


SURFACE MOUNT BEADS

PRODUCT IDENTIFICATION



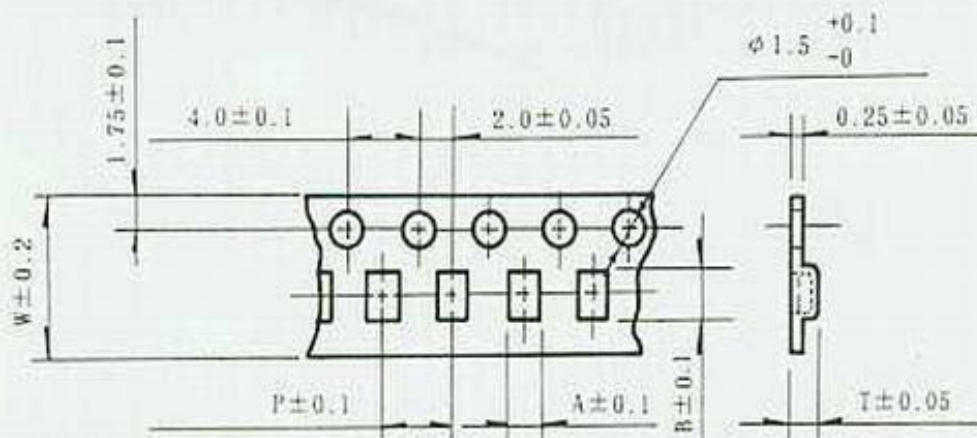
SHAPE AND DIMENSION



Dimensions : m/m

TYPE	A	B	C	D
FB403025	4.00±0.25	3.00±0.20	2.55±0.15	1.27±0.15
FB853025	8.50±0.30	3.05±0.15	2.55±0.15	1.27±0.15
FB784729	8.90-0.90	4.75±0.20	3.00±0.15	1.27±0.15

TAPE DIMENSIONS AND PACKING QUALITY



SURFACE MOUNT BEADS

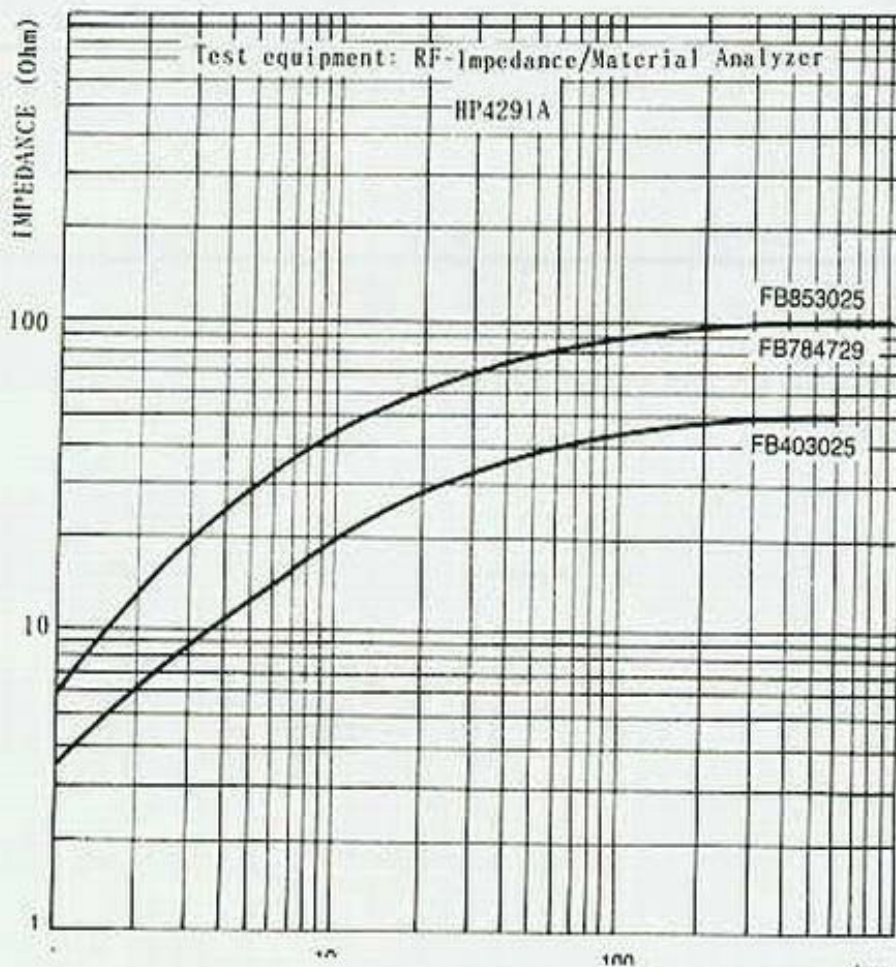
Dimensions : m/m

TYPE	A	B	W	P	C	CHIPS/REEL
FB403025	3.45	5.00	12	8	3.1	500
FB853025	3.45	9.50	16	8	3.1	500
FB784729	5.20	8.75	12	8	3.6	500

ELECTRICAL CHARACTERISTICS

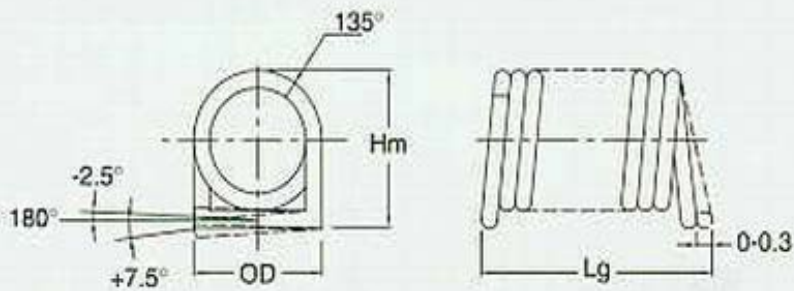
PART NO.	Impedance (Ω) at 25 MHz	Impedance (Ω) at 100 MHz	DC Resistance (Ω) Max.
FB403025 □□□□	23±25%	38±25%	0.6±0.15
FB784729 □□□□	50±25%	80±25%	0.9±0.25
FB853025 □□□□	55±25%	80±25%	0.9±0.15

TYPICAL ELECTRICAL CHARACTERISTICS CURVE



SMD AIR COILS

DIMENSIONS (m/m)



Hm: 1.90MAX OD: 1.60MAX
Lg: 1.3 MIN / 2.40 MAX

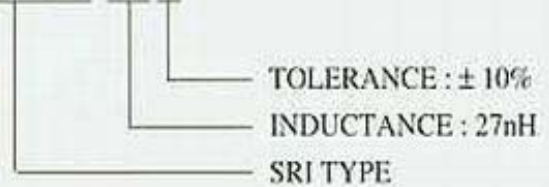


ELECTRICAL SPECIFICATION

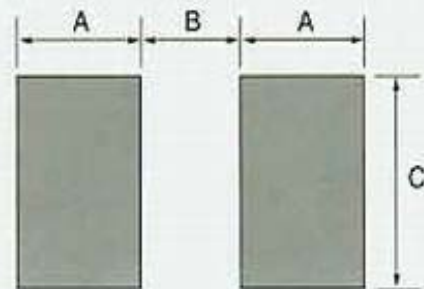
ITEM	L (nH)	Q (MIN)	TEST FREQ. (MHz)	DCR MAX(mΩ)	SRF MIN(MHz)	IDC MAX(mA)
SRI0805						
3R9K	3.9±10%	80	300	2.6	3000	1200
4R7K	4.7±10%	80	300	3.6	3000	900
5R6K	5.6±10%	80	300	3.7	3000	950
6R8K	6.8±10%	80	300	4.5	3000	900
8R2K	8.2±10%	80	300	5.3	3000	840
100K	10±10%	70	300	5.4	3000	900
120K	12±10%	70	300	6.3	3000	900
150K	15±10%	70	300	7.2	2500	900
180K	18±10%	70	300	12.5	2500	500
220K	22±10%	70	300	12.9	2400	550
270K	27±10%	70	300	14.5	1600	550
330K	33±10%	70	300	18.7	1600	500
390K	39±10%	70	300	25.7	1500	380
470K	47±10%	70	300	34.5	1500	320
560K	56±10%	70	300	38.4	1300	320
680K	68±10%	70	300	42.2	1300	320

COIL CODE

SRI0805 -270 K

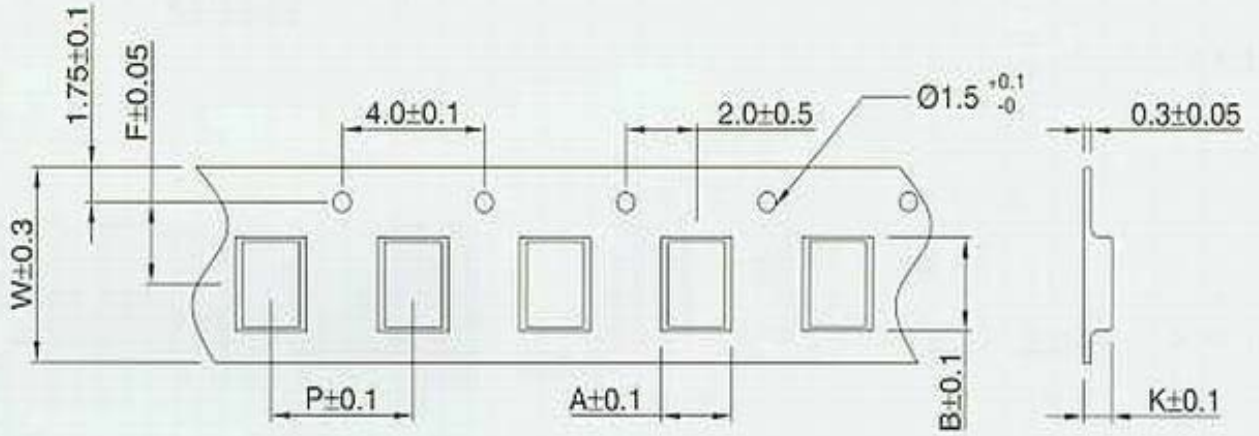


PAD LAYOUT



A: 1.02 ± 0.5 B: 0.76 ± 0.1
C: 1.60(MIN) / 1.78(REF)

TYPE & REEL SPECIFICATIONS

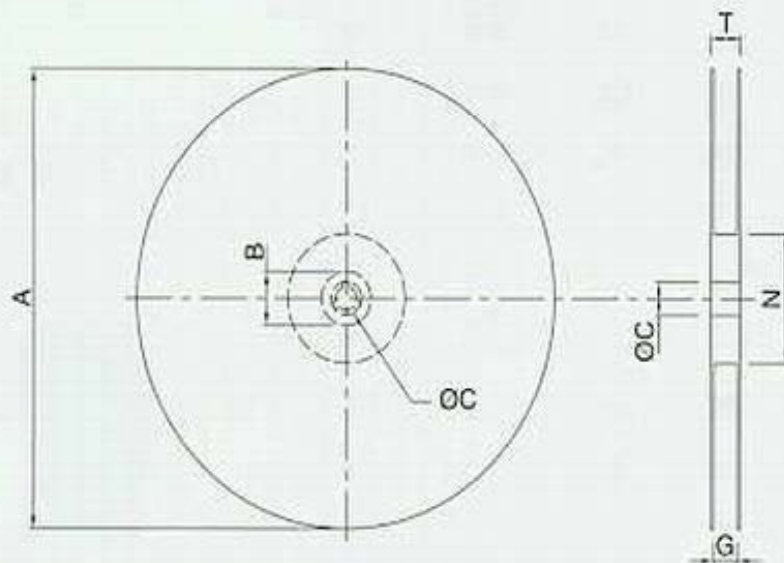
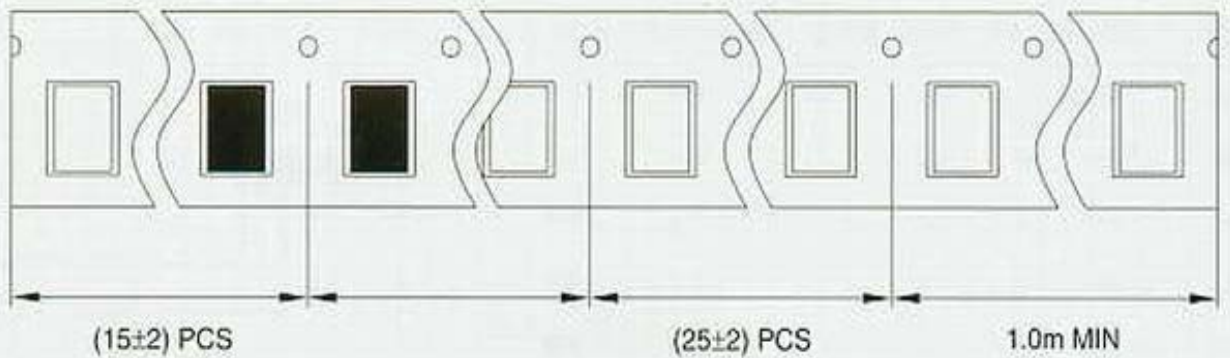


Unit : m/m

A	B	W	P	F	K	REEL
1.55	2.00	8.00	4.00	5.5	2.00	4000

END

START →



Unit : m/m

TYPE	A	B	C	G	N	T
12mm	330 ± 2	20 ± 1.0	13 ± 0.3	12.5 ± 0.1	100 ± 1.0	17 ± 2.0
8mm	330 ± 2	20 ± 1.0	13 ± 0.3	8.5 ± 0.1	100 ± 1.0	13 ± 2.0