

SMD Power Inductor For Noise/EMI/RFI Filters

OUTLINE

• Cal-Chip SMD power inductors are best designed for noise / EMI / RFI filters for surface mounting application.

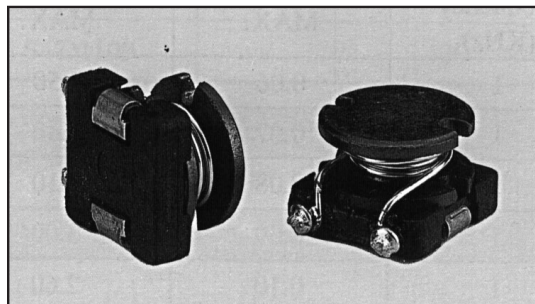
• These components contain tremendous electrode straight, solder heat resistance and outstanding solderability. These products are specially designed for flow, reflow and wave soldering required for surface mounting application.

FEATURES

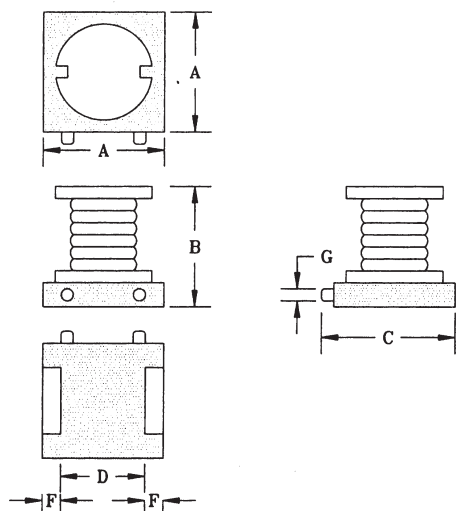
- High current and inductance capacity.
- Specially designed for surface mounting equipment, good for high density application.

RECOMMENDED APPLICATIONS

• For switching regulators, power amplifiers, power supplies, and noise / EMI / RFI filters.



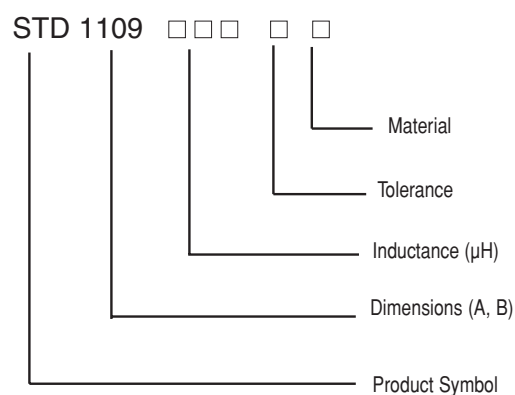
SHAPES AND DIMENSIONS



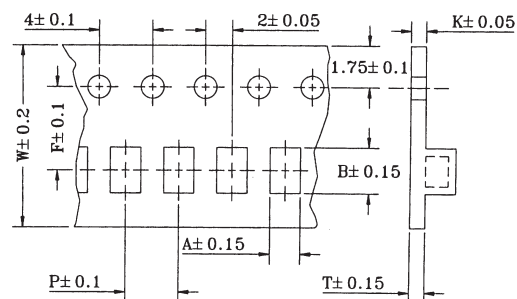
Dimensions in mm

TYPE	A	B	C	D	E	F	G
STD1109	11.6 ⁺⁰	8.5 ⁺⁰	14.0 ⁺⁰	6	4	2.55	3 ⁺⁰

PRODUCT IDENTIFICATION



TAPE DIMENSIONS



Dimensions in mm

TYPE	A	B	T	W	P	F	K
STD1109	11.66	14.25	8.64	24	20	11.5	0.4

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ELECTRICAL CHARACTERISTICS

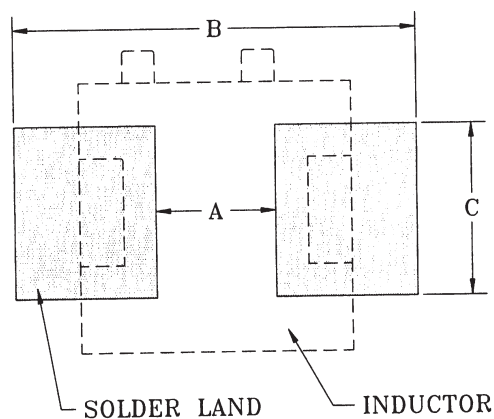
Test Instruments: HP 4261 RF Impedance for L
HP 4261 RF Impedance for IDC

Digital Multimeter SC-7401 for RDC

Part No.	L (μ H)	Test Frequency (KHz)	RDC (Ω) max.	IDC (A) max.
STD1109-100M-B	10 $\pm$ 20%	1	0.06	3.50
STD1109-120M-B	12 $\pm$ 20%	1	0.07	3.40
STD1109-150M-B	15 $\pm$ 20%	1	0.08	3.10
STD1109-180M-B	18 $\pm$ 20%	1	0.09	3.00
STD1109-220M-B	22 $\pm$ 20%	1	0.10	2.60
STD1109-270M-B	27 $\pm$ 20%	1	0.11	2.40
STD1109-330M-B	33 $\pm$ 20%	1	0.12	2.30
STD1109-390M-B	39 $\pm$ 20%	1	0.14	2.10
STD1109-470M-B	47 $\pm$ 20%	1	0.17	1.95
STD1109-560M-B	56 $\pm$ 20%	1	0.19	1.85
STD1109-680M-B	68 $\pm$ 20%	1	0.22	1.65
STD1109-820M-B	82 $\pm$ 20%	1	0.25	1.50
STD1109-101M-B	100 $\pm$ 20%	1	0.35	1.40
STD1109-121M-B	120 $\pm$ 20%	1	0.40	1.30
STD1109-151M-B	150 $\pm$ 20%	1	0.47	1.20
STD1109-181M-B	180 $\pm$ 20%	1	0.63	1.00
STD1109-221M-B	220 $\pm$ 20%	1	0.73	0.95
STD1109-271M-B	270 $\pm$ 20%	1	0.97	0.90
STD1109-331M-B	330 $\pm$ 20%	1	1.15	0.80
STD1109-391M-B	390 $\pm$ 20%	1	1.30	0.75
STD1109-471M-B	470 $\pm$ 20%	1	1.48	0.65
STD1109-561M-B	560 $\pm$ 20%	1	1.90	0.60
STD1109-681M-B	680 $\pm$ 20%	1	2.45	0.50
STD1109-821M-B	820 $\pm$ 20%	1	2.55	0.48
STD1109-102M-B	1000 $\pm$ 20%	1	3.00	0.46
STD1109-122M-B	1200 $\pm$ 20%	1	3.50	0.35

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RECOMMENDED PATTERN

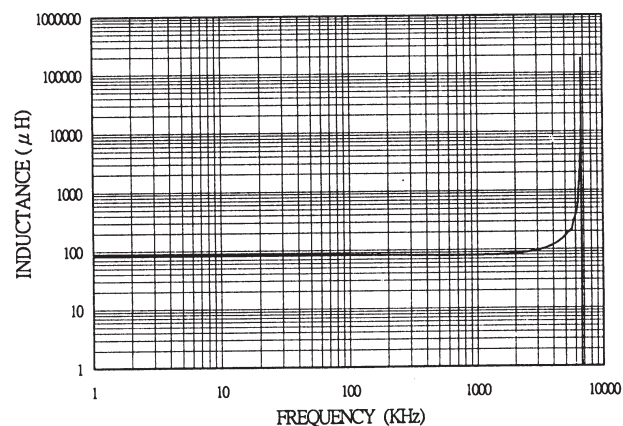


Dimensions in mm

TYPE	A	B	C
STD1109	6	12~14	5

TYPICAL ELECTRICAL CHARACTERISTICS

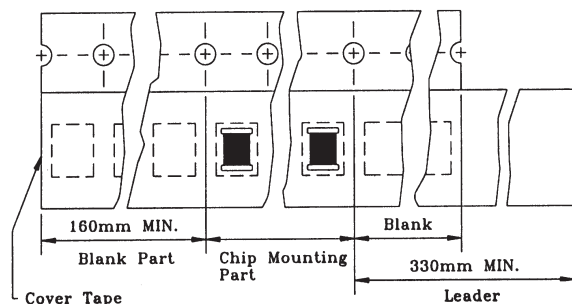
STD1109-820M



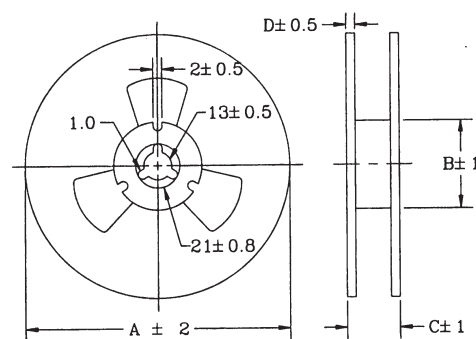
Test Instruments: HP4191A RF Impedance Analyzer

TAPE MATERIAL

Carrier Tape: Polystyrene
Cover Tape: Polyethylene



REEL DIMENSIONS



Dimensions in mm

PACKAGING QUANTITY

TYPE	BULK	CHIP/REEL
STD1109	√	400

TYPE	A	B	C	D
STD1109	330	75	26	2.4