SMD POWER INDUCTORS



MODEL NO. : SPC-0704 ERIES (CDRH74 COMPATIBLE) **FEATURES**:

- * SUPERIOR QUALITY FROM AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.

APPLICATION:

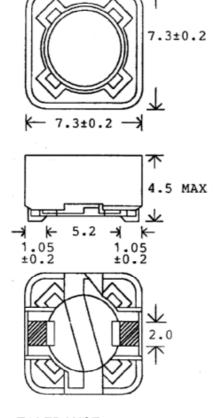
* NOTEBOOK COMPUTERS. * DC-DC CONVERTERS.

* DC-AC INVERTERS.

ELECTRICAL SPECIFICATION:

PHYSICAL	. DIMENSION	:	(UNIT:mm)
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	INDUCTANCE	D.O.D.	
PART NO.	INDUCTANCE	D.C.R. MAX	RATED CURRENT
	(uH) ±20%	()	(A)
SPC-0704-100	10	0.049	1.84
SPC-0704-120	12	0.058	1.71
SPC-0704-150	15	0.081	1.47
SPC-0704-180	18	0.090	1.31
SPC-0704-220	22	0.11	1.23
SPC-0704-270	27	0.15	1.12
SPC-0704-330	33	0.17	0.96
SPC-0704-390	39	0.23	0.91
SPC-0704-470	47	0.26	0.88
SPC-0704-560	56	0.35	0.75
SPC-0704-680	68	0.38	0.69
SPC-0704-820	82	0.43	0.61
SPC-0704-101	100	0.61	0.60
SPC-0704-121	120	0.66	0.52
SPC-0704-151	150	0.88	0.46
SPC-0704-181	180	0.98	0.42
SPC-0704-221	220	1.17	0.36
SPC-0704-271	270	1.64	0.34
SPC-0704-331	330	1.86	0.32
SPC-0704-391	390	2.85	0.29
SPC-0704-471	470	3.01	0.26
SPC-0704-561	560	3.62	0.23
SPC-0704-681	680	4.63	0.22
SPC-0704-821	820	5.20	0.20
SPC-0704-102	1000	6.00	0.18



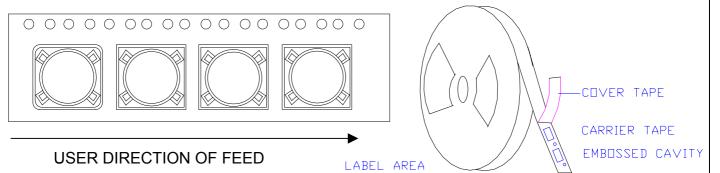
TOLERANCE: ±0.3

NOTE(1):TEST FREQUENCY: 1 kHz,1 VRMS.

NOTE(2):THIS INDICATES THE VALUE OF DC CURRENT WHICH THE INDUCTANCE IS 10% LOWER THAN ITS INITIAL VALUE AND/OR $\Delta T = 40$ UNDER THIS DC CURRENT BIAS.

PACKING

Tape and Reel Orientation



NOTE: Top view shown with cover tape removed.

TAPE WIDTH	REEL WIDTH	COMPONENT PITCH	UNITS PER REEL
16mm	22.4mm	12mm	1000

TAPE SPECIFICATIONS:

Carrier Tape Type : Conductive. Cover Tape Type : Antistatic.

Cover Tape Adhesion to Carrier: 10 - 70 grams.

REEL SPECIFICATIONS:

Antistatic.

Diameter (flange): 13" (330.2mm)

STANDARDS: All embossed carrier tape packaging will be accomplished in compliance with latest revision of EIA-481

"Taping of surface Mount Components for Automatic Placement".

ENVII	ENVIRONMENTAL PERFORMANCE				
ITEM	TEST	CONDITION			
1	Thermal Shock	(1)Ten cycles of 30 minutes @-30 .			
		(2)15 seconds maximum @ room ambient.			
		(3)30 minutes @+85 .			
		(4)15 seconds maximum @ room ambient.			
		Subject samples to 10 cycles. Test pet applicable specification after a 4 hours stabilization at room ambient.			
2	Vibration	Inductance deviation within ±3.0% after vibration for 1 hour.			
		In each of three orientations at sweep vibration (10 50 10Hz) with 1.5mm P-P amplitude.			
3	Solderability	Solder pot at 230 ±5 , with kester 1544 solder flux. Dip parts into solder pot containing 63/37 molten alloy for			
		5 second ±1 second. Wetting must occur on a minimum of 90% of the terminations.			
4	Operating	-25 +80 (coil contain heat)			
	Temperature				
5	Humidity	Inductance deviation within±5.0%			
		After 96 hour in 90 95% relative humidity at 40±2 and 1 hour drying under normal condition.			
6	Mechanical Shock	Inductance deviation within±5.0% after drop down with 981m/s ² (100G)shock.			
		Attitude upon a rubber block method shock testing machine, for 1 time, in each of three orientations.			