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SPC-F005.DWG

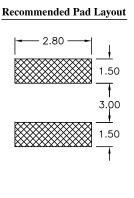
	REVISIONS			0. SPC-F005	* Effe	ctive: 7/8/0	2 * DCF	No: 1398
DCP #	DESCRIPTION		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
2048	Α	RELEASED	JN	05/21/09	JWM	05/21/09	JWM	05/21/09



Features:

- -Very strong solderability by flow soldering, soldering iron or wave soldering.
- -Highly accurate dimensions, can be mounted automatically.
- -Terminals are highly resistant to pull forces.
- -Highly resistant to mechanical shocks and pressure.
- -Highly reliable in environments of sudden temperature change and humidity.

8±0.1 - 3.30±0.1-

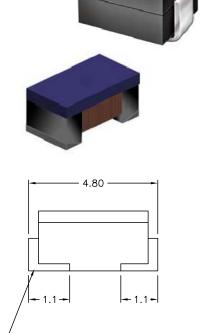


3.50

- 3.50 -

1.80

Terminal Wraparound



DISCLAIMER: ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WI BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

ø1.5

TOLERANCES:	DRAWN BY:	DATE:	
UNLESS OTHERWISE	Jason Nash	05/21/09	
SPECIFIED,	CHECKED BY:	DATE:	
DIMENSIONS ARE	JWM	05/21/09	
PURPOSES ONLY.	APPROVED BY:	DATE:	
	JWM	05/21/09	

3.50±0.05

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	DRAW	ING TITLE:					
09		Woun	d Chip Inductor — Cas	se size	1812		
	SIZE	DWG. NO.		ELEC	TRONIC FIL	E	REV
09	A Ta-1123			To	1-1123.	DWG	Α
09	SCAL	E: NTS	U.O.M.: Millimeters		SHEET:	1 OF	2



Mf., DN	Industance	ance		Self Resonant	D. J.	0 = 1	
Mfr PN	Inductance			Rating	Frequency	Package	Q Factor
MCNL12JT100	10000nH	± 5%	1.6ohm	250mA	20MHz	1812	Q Factor:50
MCNL12JT101	10000nH	± 5%	8ohm	110mA	8MHz	1812	Q Factor:40
MCNL12JT150	1500nH	± 5%	2.5ohm	200mA	17MHz	1812	Q Factor:50
MCNL12JT151	15000nH	± 5%	9ohm	105mA	5MHz	1812	Q Factor:40
MCNL12JT1R0	1000nH	± 5%	0.5ohm	450mA	100MHz	1812	Q Factor:50
MCNL12JT1R5	1500nH	± 5%	0.6ohm	410mA	70MHz	1812	Q Factor:50
MCNL12JT220	2200nH	± 5%	3.2ohm	180mA	13MHz	1812	Q Factor:50
MCNL12JT221	22000nH	± 5%	10ohm	100mA	4MHz	1812	Q Factor:40
MCNL12JT2R2	2200nH	± 5%	0.7ohm	380mA	55MHz	1812	Q Factor:50
MCNL12JT330	3300nH	± 5%	4ohm	160mA	11MHz	1812	Q Factor:50
MCNL12JT331	33000nH	<u>± 5%</u>	15ohm	85mA	3.5MHz	1812	Q Factor:30
MCNL12JT3R3	3300nH	± 5%	0.8ohm	355mA	45MHz	1812	Q Factor:50
MCNL12JT470	4700nH	± 5%	5ohm	140mA	10MHz	1812	Q Factor:50
MCNL12JT471	47000nH	± 5%	26ohm	62mA	3MHz	1812	Q Factor:30
MCNL12JT4R7	4700nH	± 5%	1ohm	315mA	35MHz	1812	Q Factor:50
MCNL12JT680	6800nH	± 5%	6ohm	130mA	9MHz	1812	Q Factor:50
MCNL12JT681	68000nH	± 5%	30ohm	50mA	3MHz	1812	Q Factor:30
MCNL12JT6R8	6800nH	± 5%	1.2ohm	285mA	27MHz	1812	Q Factor:50

Mechanical Performance

No.	Item	Specification	Test Methods
1	Vibration Test	Appearance: No damage L change: within ±10% Q change: within ±30% RDC: Within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1mln Amplitude: 1,5mm Time: 2hrs for each axis (X, Y &Z), total 6hrs
2	Resistance to Soldering-Heat	Appearance: No Damage	Solder Temperature: 270±5°C Immersion Time: 10±2sec
3	Solderability	The electrodes shall be at least 90% covered with new solder coating	Lead-free Inductor: after fluxing (alpha 100 or equiv), inductor shall be dipped in a melted solder bath at 245±5°C, 5±0.5 second

Climatic Test

No.	Item	Specification	Test Method						
			One cycle:						
			Step	Temperature	Time (min)				
			1	-25±3	30				
1	Temperature Cycle		2	25±2	3				
			3	85±3	30				
			4	25±2	3				
			Total: 100 cycles						
			Measured after exposure in the room condition for 24hi						
		Appearance: No damage	Temperature: 40±2°C						
	HumldIty Resistance	L change: within ±10% Q change: within ±30%	Relative Humidity: 90~95%						
2		RDC: Within specification	· · · · · · · · · · · · · · · · · · ·						
		NDO. Within specification	Time: 1000hrs Measured after exposure in the room condition for 24hrs Temperature: 85±3°C						
3	High Temperature Storage		Relative Humidity: 20%						
		9	Applied Current: Rated Current						
			Time: 1000hrs						
			Measured after exposure in the room condition for 24hr						
			Temperatu	re:-25±2°C					
4	Low Temperature Storage		Relative Humidity:0%						
			Time: 1000hrs						
			Measured after exposure in the room condition for 24hr						

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EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.			Ta	-1122	To	ı-1122.DWG	Α
SPC-F005.DWG	DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398	SCALE	E: NTS	U.O.M.: INCHES [mm]]	SHEET: 2 OF	F 2