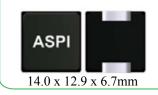
SHIELDED SMD CHIP POWER INDUCTOR

ASPI-1367





FEATURES:

- 100%lead (Pb) free.
- Lowest DCR/uH, in this package size.
- Frequency range up to 5.0MHZ.
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction.

► APPLICATIONS:

- PDA/Notebook/Desktop/Server applications.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converter for Field Programmable Gate Array(FPGA)

ELECTRICAL SPECIFICATIONS:

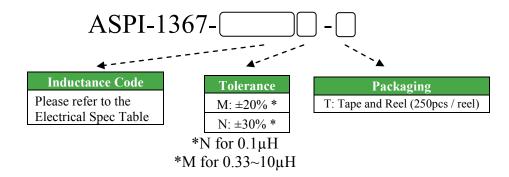
ABRACON P/N:	ASPI-1367
Operating Temperature:	-40°C to +125°C
Storage Temperature:	Less than +40°C, 70% RH.

Part Number ASPI-1367-	L (μΗ)	Tolerance (M, N)	$R_{DC}(m\Omega)$ Typ	$R_{DC}(m\Omega)$ Max	I _{sat} (A)	I _{rms} (A)
R10	0.1	N	0.25	0.5	80.0	60.0
R33	0.33	M	0.6	0.8	65.0	46.0
2R2	2.2	M	3.8	4.2	33.0	20.0
3R3	3.3	M	5.5	6.8	29.0	15.0
4R7	4.7	M	9.5	11.2	25.0	13.5
5R6	5.6	M	10.5	11.5	24.0	12.0
6R8	6.8	M	13.5	14.9	16.5	11.5
8R2	8.2	M	15.2	16.6	16.0	10.5
100	10	M	17.0	18.5	15.5	10.0

Test Conditions

- 1. Inductance tested at 200kHz, 0.25V, 0A; Tolerance M=±20%, N=±30%
- 2. All test data is in reference to 25°C ambient.
- 3. Isat will cause the inductance value to drop approximately 30%
- 4. Irms will cause an approximate ΔT of 40°C
- 5. The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- 6. Please contact Abracon for the availability of other inductance values.

OPTIONS AND PART IDENTIFICATION







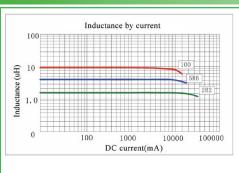
SHIELDED SMD CHIP POWER INDUCTOR

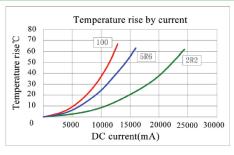
ASPI-1367

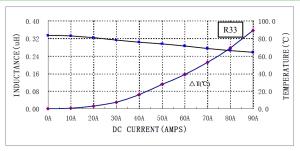




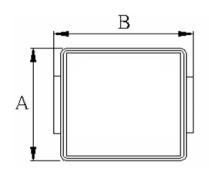
INDUCTANCE AND TEMPERATURE CURVE

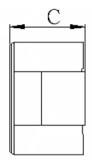


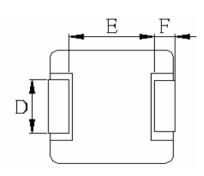




OUTLINE DIMENSIONS:

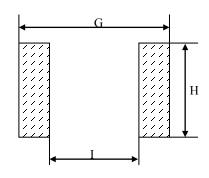






A	В	C	D	E	F
12.9 max.	14.0 max.	6.7 max.	4.0±0.5 for L≤1.5uH 3.0±0.5 for L=2.2uH 4.7±0.3 for L>2.2uH	8.4 ref.	2.0±0.5

Recommended Land Pattern



G	H	I
14.5	5.0	8.0

Dimension: mm





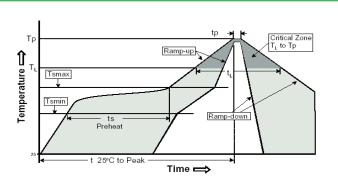
SHIELDED SMD CHIP POWER INDUCTOR

ASPI-1367





REFLOW PROFILE:

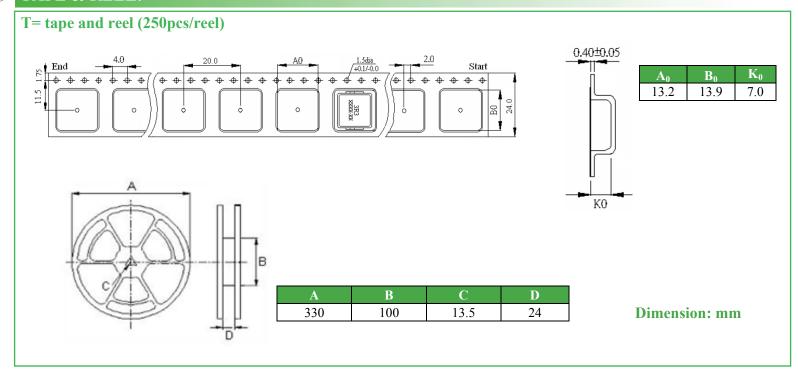


Profile Feature	Assembly
Average Ramp-Up Rate	3°C /second max.
(Ts _{max} to Tp)	3 C/second max.
Preheat -Temperature Min (Ts min) -Temperature Max (Ts max) -Time (ts min to ts max)	150°C 200°C 60-180 seconds
Time maintained above:	
-Temperature (T _L)	217°C
-Time (t_L)	60-150 seconds
Peak/Classification Temperature (Tp)	245 +0°C
Time within 5°C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6°C/seconds max
Time 25°C to Peak Temperature	8 minutes max.

Storage Conditions and Handling

- (1) Temperature and humidity conditions: less than 40°C and 70% RH.
- (2) Products should be used within 6 months.
- (3) The packaging material should be kept where no chlorine or sulfur exists in the air.
- (4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability
- (5) The use of tweezers or vacuum pick-ups is strongly recommended for individual components.
- (6) Bulk handling should ensure that abrasion and mechanical shock are minimized.

TAPE & REEL:



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CR54NP-820KC CR54NP-8R5MC 70F224AI MGDQ4-00004-P MHL1ECTTP18NJ MHQ1005P10NJ MHQ1005P1N0S MHQ1005P2N4S

MHQ1005P3N6S MHQ1005P5N1S MHQ1005P8N2J PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-92100NL

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