

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







HIGH CURRENT SHIELDED POWER INDUCTOR

ASPI-7318

MSL Level:1





> 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:

- 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-7318-xxx |
|-------------------------|-----------------------------------|
| Operating Temperature : | -55°C to +125°C |
| Storage Temperature | Less than +25°C, Humidity<75% RH. |

| Part Number ASPI-7318- | L | Tolerance | R _{DC} Max | I _{sat} Typ | I _{rms} Typ |
|---------------------------|------|-----------|---------------------|----------------------|----------------------|
| Inductance Code | (μΗ) | (M, N) | mΩ | (A) | (A) |
| ASPI-7318-R10 | 0.10 | N | 1.7 | 50 | 30 |
| ASPI-7318-R15 | 0.15 | N | 2.5 | 45 | 26 |
| ASPI-7318-R20 | 0.20 | N | 3.0 | 41 | 24 |
| ASPI-7318-R22 | 0.22 | N | 3.1 | 34 | 22 |
| ASPI-7318-R33 | 0.33 | M | 3.9 | 28 | 20 |
| ASPI-7318-R47 | 0.47 | M | 4.2 | 24 | 17.5 |
| ASPI-7318-R56 | 0.56 | M | 5.3 | 23 | 15.5 |
| ASPI-7318-R68 | 0.68 | M | 5.5 | 22 | 15.5 |
| ASPI-7318-R82 | 0.82 | M | 8.0 | 19 | 13 |
| ASPI-7318-1R0 | 1.0 | M | 10.0 | 17 | 11 |
| ASPI-7318-1R5 | 1.5 | M | 15 | 15 | 9 |
| ASPI-7318-2R2 | 2.2 | M | 20 | 12 | 8 |
| ASPI-7318-2R5 | 2.5 | M | 22 | 11 | 8 |
| ASPI-7318-3R3 | 3.3 | M | 30 | 10 | 6 |
| ASPI-7318-4R7 | 4.7 | M | 40 | 8 | 5 |
| ASPI-7318-5R6 | 5.6 | M | 54 | 7.5 | 5 |
| ASPI-7318-6R8 | 6.8 | M | 60 | 7 | 4.5 |
| ASPI-7318-8R2 | 8.2 | M | 68 | 6 | 4 |
| ASPI-7318-100 | 10.0 | M | 105 | 5.5 | 3 |
| ASPI-7318-220 | 22.0 | M | 230 | 3 | 2 |

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 20%
- 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.



ABRACON IS

ISO9001:2008 CERTIFIED



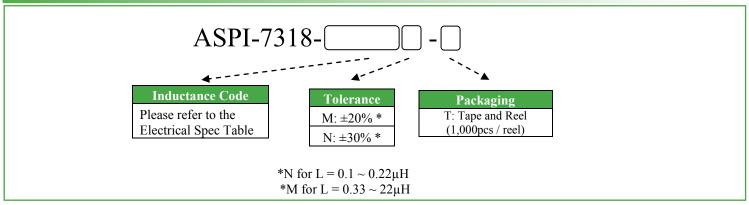
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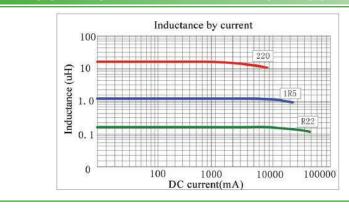


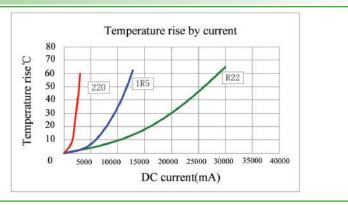


> OPTIONS AND PART IDENTIFICATION

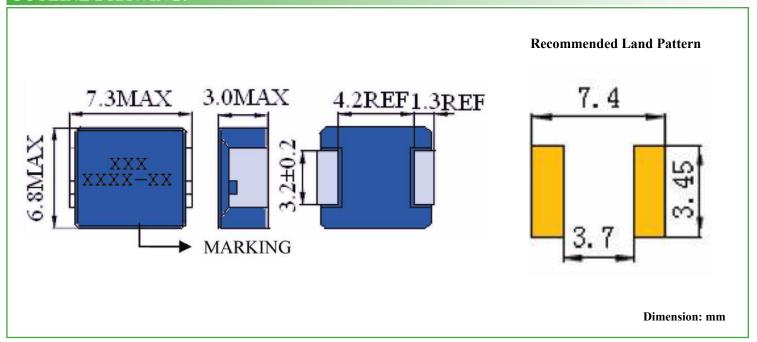


► INDUCTANCE AND TEMPERATURE CURVE





OUTLINE DRAWING:





HIGH CURRENT SHIELDED POWER INDUCTOR

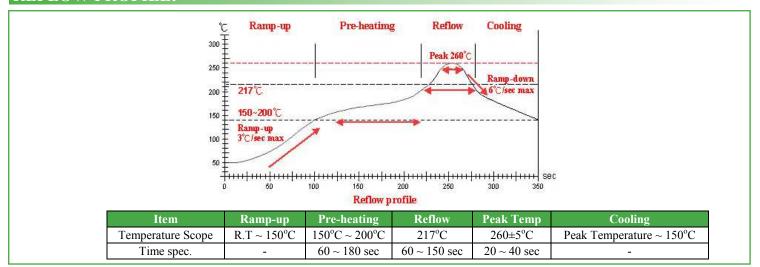
RoHS Compliant



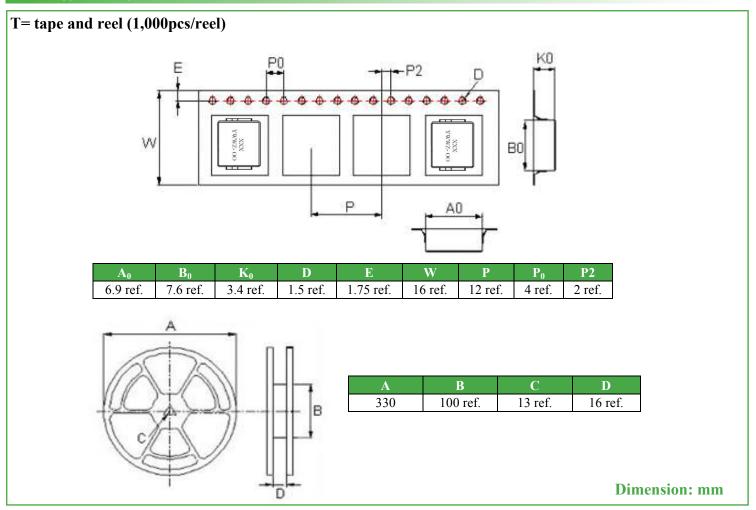
7.3 x 6.8 x 3.0 mm

ASPI-7318

REFLOW PROFILE:



> TAPE & REEL:



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