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



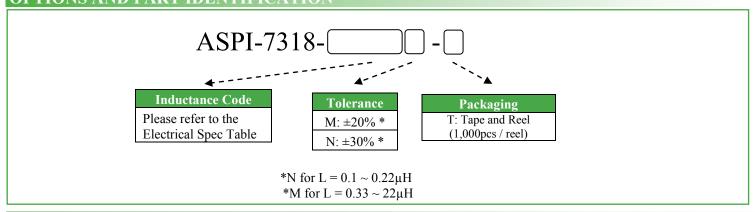
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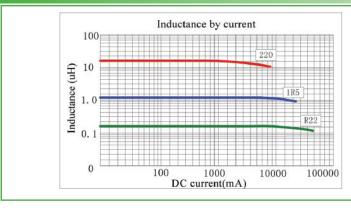


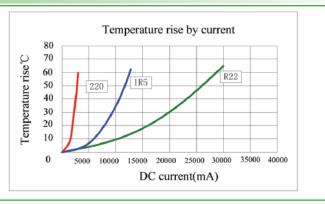


> OPTIONS AND PART IDENTIFICATION

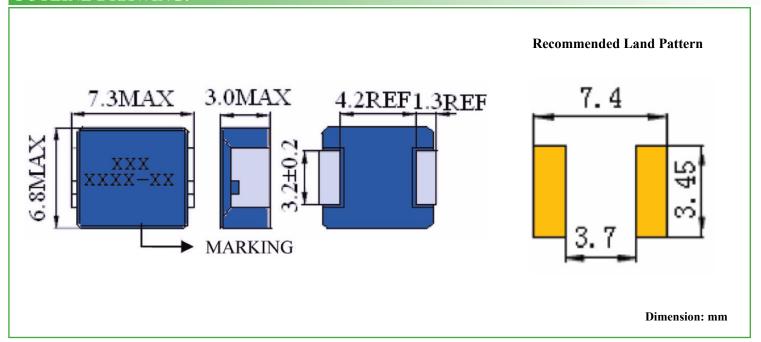


► INDUCTANCE AND TEMPERATURE CURVE





OUTLINE DRAWING:





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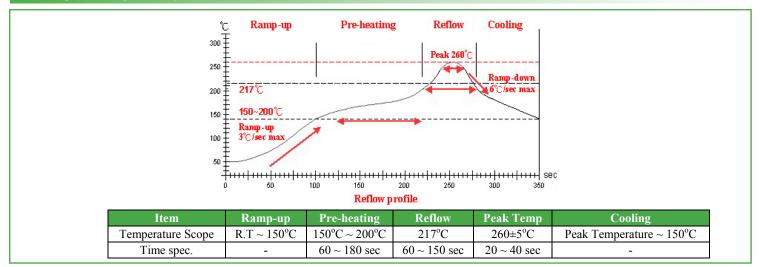
) RoHS
Compliant



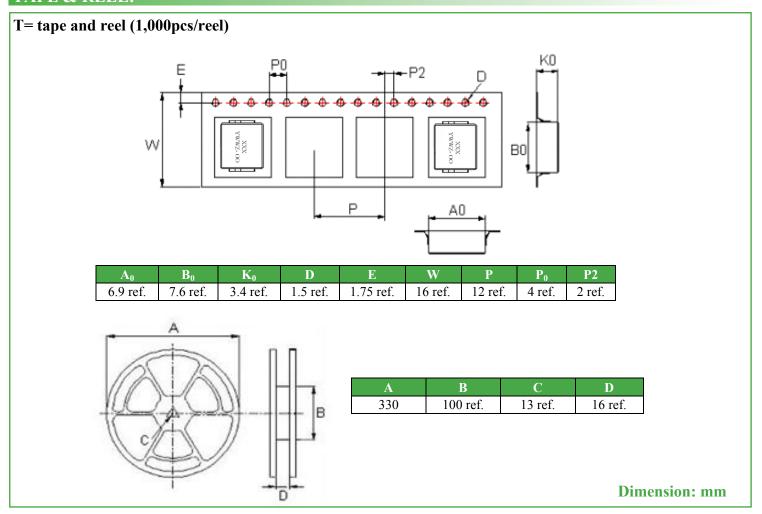
7.3 x 6.8 x 3.0 mm

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REFLOW PROFILE:



TAPE & REEL:



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