

RoHS

Compliant

MSL Level:1 *Not recommended for D.I. water wash

FEATURES:

- 100%lead (Pb) free.
- Lowest DCR/uH, in this package size.

ASPI-7318

- 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 Temperatu	re :	-55°C to +125°C
Storage Temperature		Less than +25°C, Humidity<75% RH.

Part Number ASPI-7318-	L	Tolerance	RDC Max	Isat Typ	Irms Typ
Inductance Code	(µH)	(M, N)	mΩ	(A)	(A)
ASPI-7318-R10	0.10	N	1.7	60	32.5
ASPI-7318-R15	0.15	Ν	1.9	45	27
ASPI-7318-R20	0.20	N	2.5	41	24
ASPI-7318-R22	0.22	Ν	2.8	40	23
ASPI-7318-R33	0.33	М	3.9	32	20
ASPI-7318-R47	0.47	М	4.0	26	17.5
ASPI-7318-R56	0.56	М	5.0	25.5	16.0
ASPI-7318-R68	0.68	М	5.5	25	15.5
ASPI-7318-R82	0.82	М	8.0	24	13.0
ASPI-7318-1R0	1.0	М	10.0	22	11.0
ASPI-7318-1R5	1.5	М	15	18	9.0
ASPI-7318-2R2	2.2	М	20	14	8.0
ASPI-7318-2R5	2.5	М	22	13	7.0
ASPI-7318-3R3	3.3	М	30	13.5	6.0
ASPI-7318-4R7	4.7	М	40	10	5.5
ASPI-7318-5R6	5.6	М	48	9.0	5.0
ASPI-7318-6R8	6.8	М	60	8	4.5
ASPI-7318-8R2	8.2	М	68	7.5	4.0
ASPI-7318-100	10.0	М	85	6.0	3.5
ASPI-7318-220	22.0	М	190	3.5	2.0

Test Conditions

- 1. Inductance tested at 200kHz, 0.25V, 0A; Tolerance M= $\pm 20\%$; N= $\pm 30\%$
- 2. All test data is in reference to 25°C ambient.
- 3. Is at 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.



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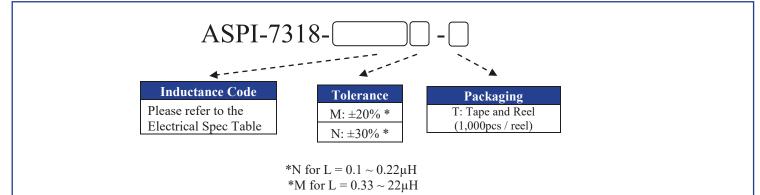


RoHS

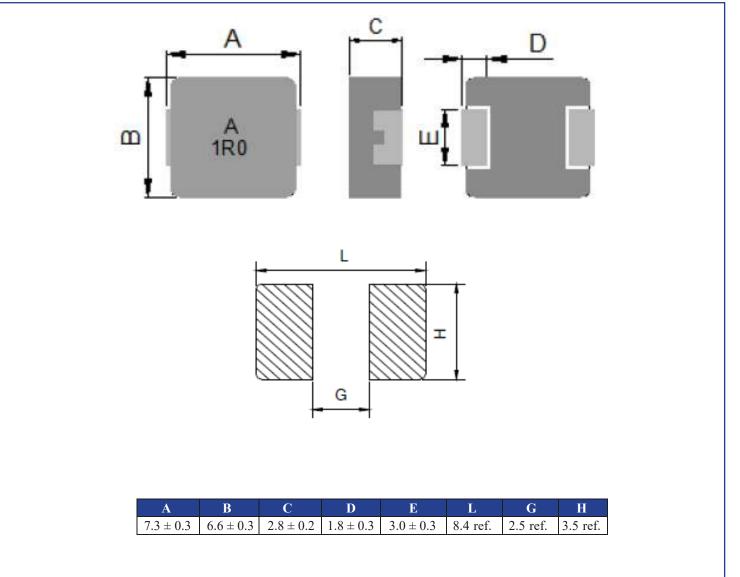
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> OPTIONS AND PART IDENTIFICATION:



OUTLINE DRAWING:





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REVISED: 03-30-20

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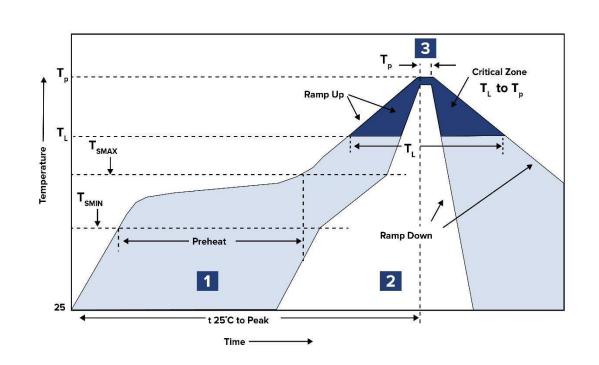


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7.3 x 6.8 x 3.0 mm

REFLOW PROFILE:



Zone	Description	Temperature	Times	
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	$60 \sim 180$ sec.	
2	Reflow	Т _L 217°С	$60 \sim 150$ sec.	
3	Peak heat	T_P 260°C±5°C	10 sec. MAX	



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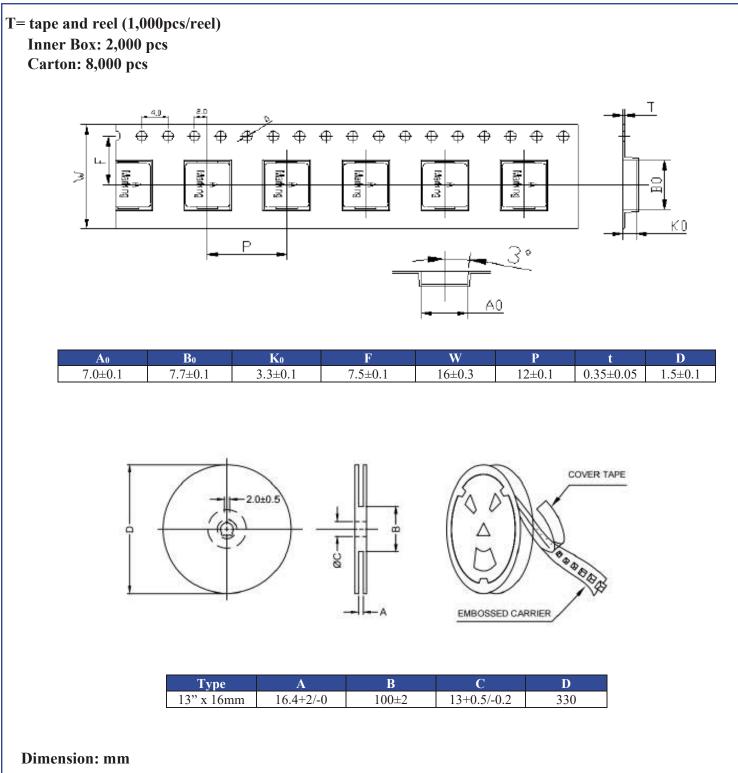


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▷ TAPE AND REEL:



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