

SMD SHIELDED POWER INDUCTORS

ASPI-0428S



RoHS
Compliant



FEATURES:

- Superior to be high saturation for surface mounting
- Very thin & compact
- With large permissible DC current & low DC resistance
- Magnetic shielding surface mount inductor with high rating

APPLICATIONS:

- PDA's flash memory
- Step-up, step-down converters
- Communications
- Hard disk, notebook computer

ELECTRICAL SPECIFICATIONS:

PARAMETERS

ABRACON P/N: ASPI-0428S-XXX

Operating temperature: -40°C to +85°C

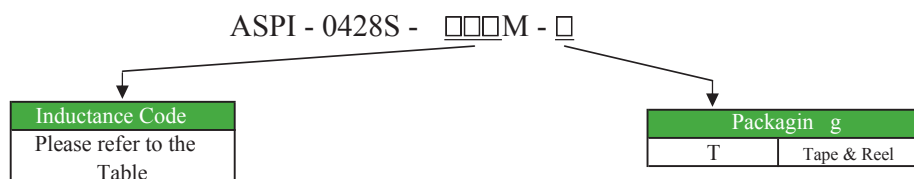
Storage temperature: -40°C to +85°C

Part#	Inductance (μ H)	Tol. (%)	RDC max. (Ω)	IDC max. (A)
ASPI-0428S-1 R2	1.2	M	0.0236	2.56
ASPI-0428S-1R 8	1.8	M	0.0275	2.20
ASPI-0428S-2R2	2.2	M	0.0313	2.04
ASPI-0428S-2 R7	2.7	M	0.0433	1.60
ASPI-0428S-3R3	3.3	M	0.0492	1.57
ASPI-0428S-3 R9	3.9	M	0.0648	1.44
ASPI-0428S-4R7	4.7	M	0.0720	1.32
ASPI-0428S-5R6	5.6	M	0.1009	1.17
ASPI-0428S-6R8	6.8	M	0.1089	1.12
ASPI-0428S-8R2	8.2	M	0.1175	1.04
ASPI-0428S-10 0	10	M	0.1283	1.00
ASPI-0428S-12 0	12	M	0.1316	0.84
ASPI-0428S-15 0	15	M	0.1490	0.76
ASPI-0428S-18 0	18	M	0.1660	0.72
ASPI-0428S-22 0	22	M	0.2350	0.70
ASPI-0428S-27 0	27	M	0.2610	0.58
ASPI-0428S-33 0	33	M	0.3780	0.56
ASPI-0428S-39 0	39	M	0.3837	0.50
ASPI-0428S-47 0	47	M	0.5870	0.48
ASPI-0428S-56 0	56	M	0.6245	0.41
ASPI-0428S-68 0	68	M	0.6990	0.35
ASPI-0428S-82 0	82	M	0.9148	0.32
ASPI-0428S-101	100	M	1.0200	0.29
ASPI-0428S-121	120	M	1.2700	0.27
ASPI-0428S-151	150	M	1.3500	0.24
ASPI-0428S-181	180	M	1.5400	0.22

Note:

Test Frequency is 100KHz. DCR & IDC listed are all Max. value. Tolerance: M=±20%, M tolerance is standard

OPTIONS AND PART IDENTIFICATION



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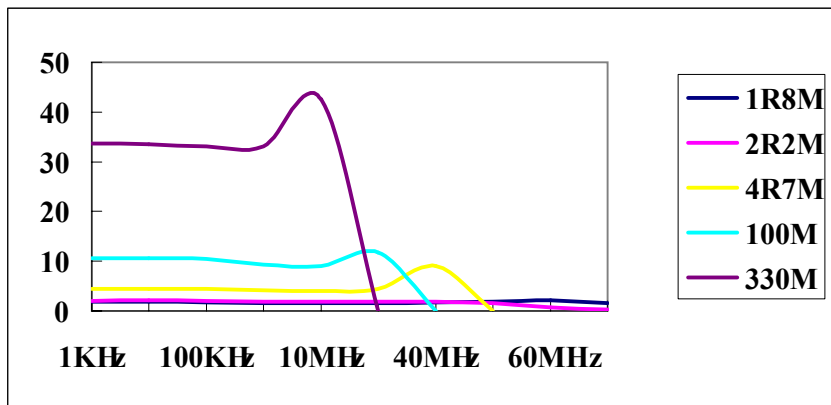


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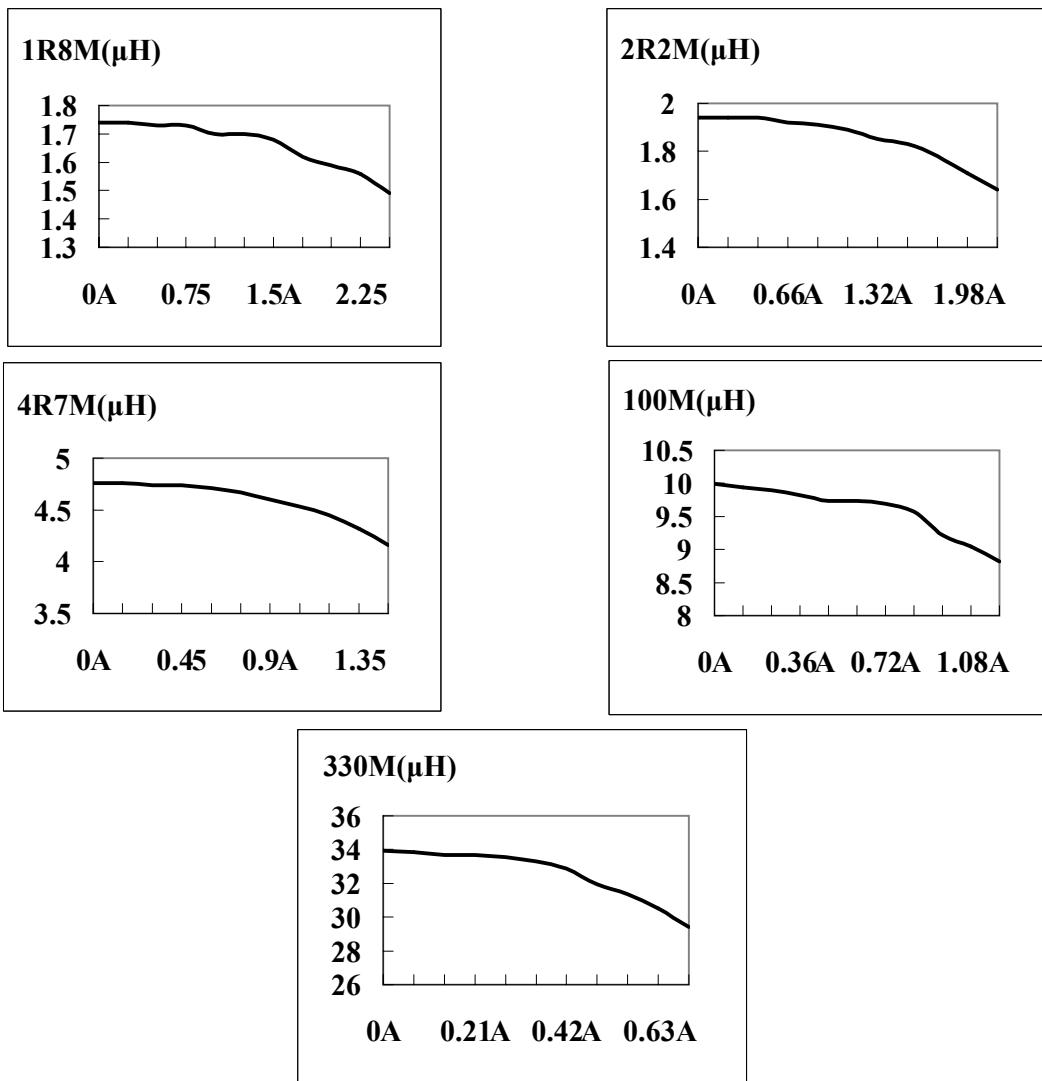


DATA PLOT:

Inductance vs Frequency



Inductance vs Current



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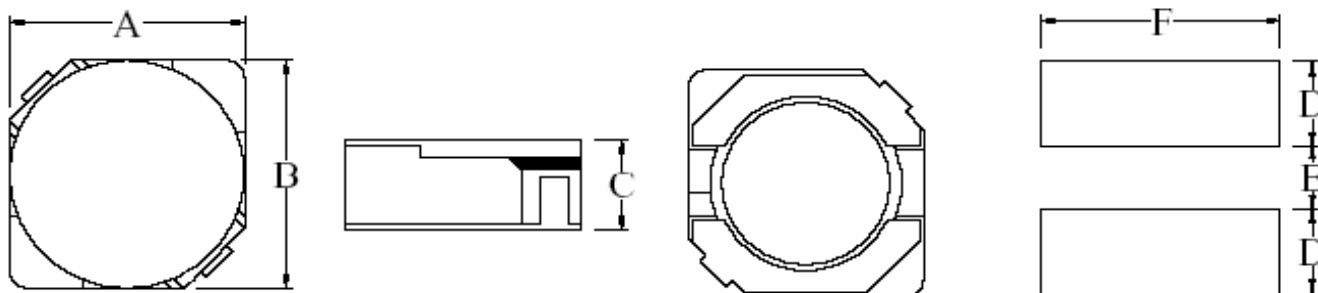
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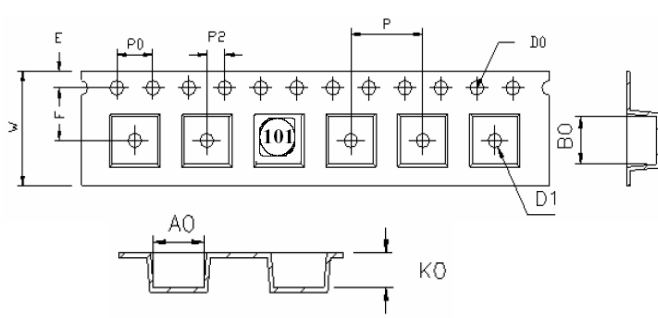
OUTLINE DRAWING:



Part#	A	B	C	D	E	F
ASPI-0428S-xxx	0.185±0.012 (4.7± 0.3)	0.185±0.012 (4.7± 0.3)	0.118 Max (3.0) max.	0.075 ref. (1.9) ref.	0.059 ref. (1.5) ref.	0.209 ref. (5.3) ref.

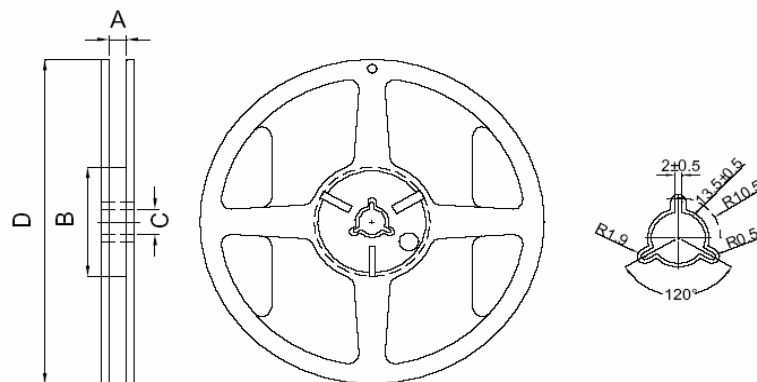
Dimension : Inches (mm)

TAPE & REEL: Tape and reel 2,000pcs/reel



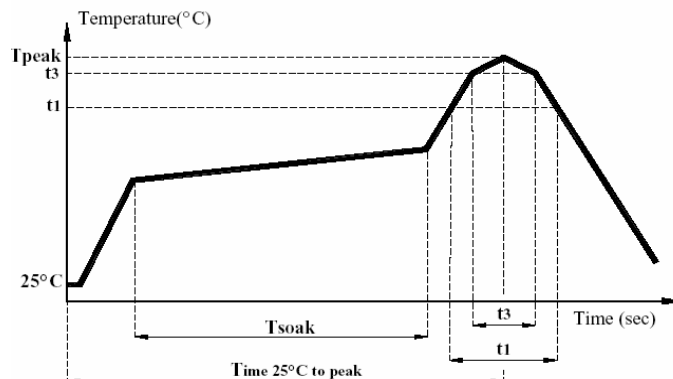
Part#	A0	B0	K0	P	P0	P2
ASPI-0428S-xxx	5.2± 0.1	5.2± 0.1	3.2± 0.1	8.0± 0.1	4.0± 0.1	2.0± 0.1
	W	F	E	D0	D1	
	12± 0.3	5.5± 0.05	1.75±0.1	1.5 min.	1.5 min.	

Dimension : mm



Part#	A	B	C	D
ASPI-0428S-xxx	12.5± 0.5	100± 0.5	13.2± 0.3	330± 1.0

REFLOW PROFILE:



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