

UNSHIELDED POWER INDUCTOR

ASPI-4214



RoHS
Compliant



6.5 x 5.6 x 1.0mm

FEATURES:

- High energy storage and very low resistance
- Small size and high performance

APPLICATIONS:

- Laptop computers, Step-up and step-down converters
- Flash, memory programmers

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	ASPI-4214 xxxx
Operating temperature:	-40°C to +85°C
Storage temperature:	under +25°C, Humidity <75% R.H.

Electrical Characteristics

Part Number ASPI-4214S-	L (μ H)	Tolerance %	Test voltage/ freq. (V/kHz) 0.1/100	R _{DC} (Ω) Max	I _{sat} (A)	I _{rms} (A)
1R2	1.2	M	0.1V 100kHz	0.08	2.1	3.6
1R5	1.5	M	0.1V 100kHz	0.1	1.9	2.8
2R2	2.2	M	0.1V 100kHz	0.12	1.6	2.4
3R3	3.3	M	0.1V 100kHz	0.16	1.3	2
4R7	4.7	M	0.1V 100kHz	0.2	1.1	1.7
6R8	6.8	M	0.1V 100kHz	0.32	0.9	1.2
100	10	M	0.1V 100kHz	0.41	0.8	1.1
150	15	M	0.1V 100kHz	0.55	0.65	0.9
220	22	M	0.1V 100kHz	0.85	0.5	0.83
330	33	M	0.1V 100kHz	1.3	0.4	0.62
470	47	M	0.1V 100kHz	1.8	0.35	0.52
680	68	M	0.1V 100kHz	2.5	0.3	0.35
101	100	M	0.1V 100kHz	3.5	0.25	0.27
151	150	M	0.1V 100kHz	5	0.18	0.24
221	220	M	0.1V 100kHz	7	0.16	0.23
331	330	M	0.1V 100kHz	15	0.13	0.13

Note: Tolerance M=±20%

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASPI - 4214 - M -

Inductance Code

Please refer to
the Table

Packaging

T Tape & Reel



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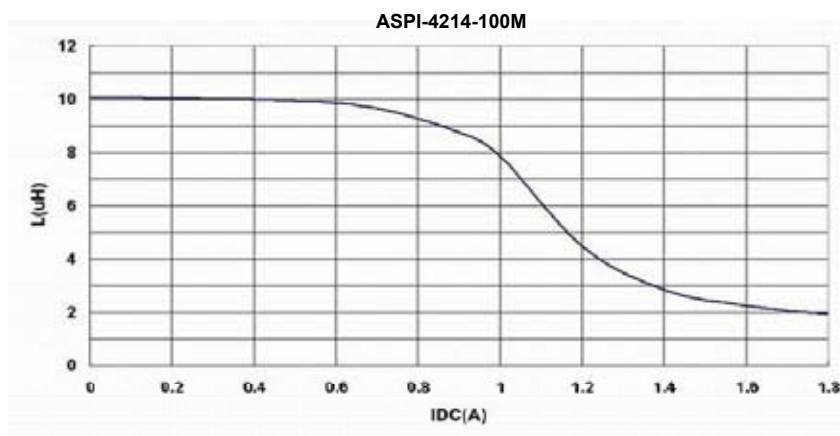
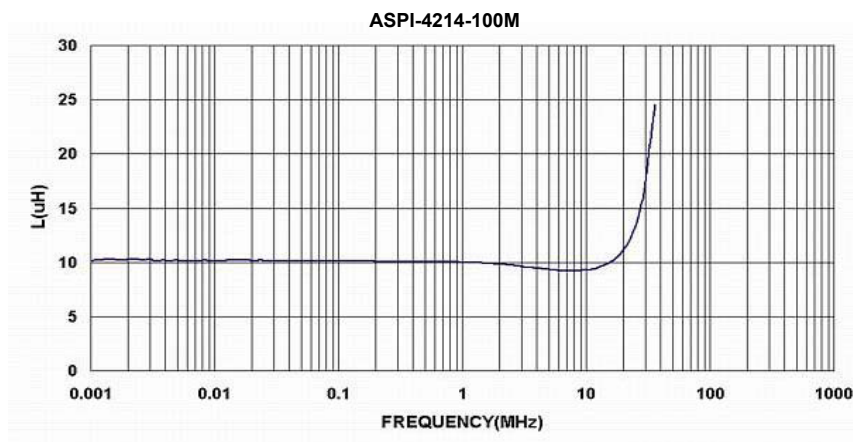


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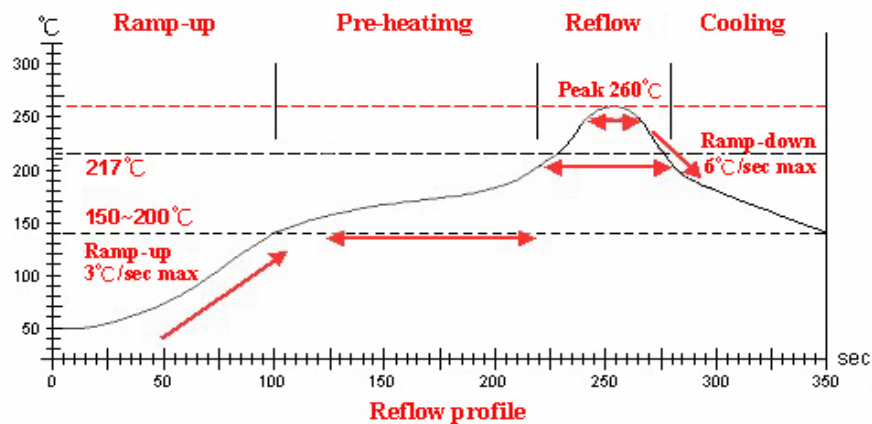


6.5 x 5.6 x 1.0mm

EXAMPLE CURVE



REFLOW PROFILE



Item	Ramp-up	Pre-heating	Reflow	Peak Temp	Cooling
Temperature Scope	R.T. ~ 150°C	150°C~200°C	217°C	260±5°C	Peak Temp. ~ 150°C
Time spec.	--	60 ~ 180 sec	60 ~ 150 sec	20 ~ 40 sec	--

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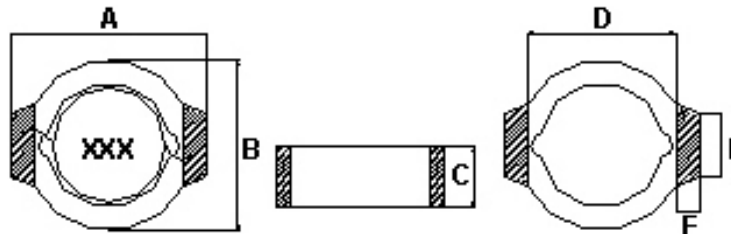


RoHS
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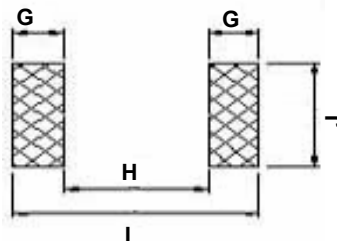
6.5 x 5.6 x 1.0mm

OUTLINE DIMENSIONS:



Part#	A	B	C	D	E	F
ASPI-4214S-xxx	0.256+0 (6.5+0)	0.22+0 (5.6+0)	0.039±0.008 (1.0±0.2)	0.189 ref. (4.8) ref.	0.031 ref. (0.8) ref.	0.079 ref. (2.0) ref.

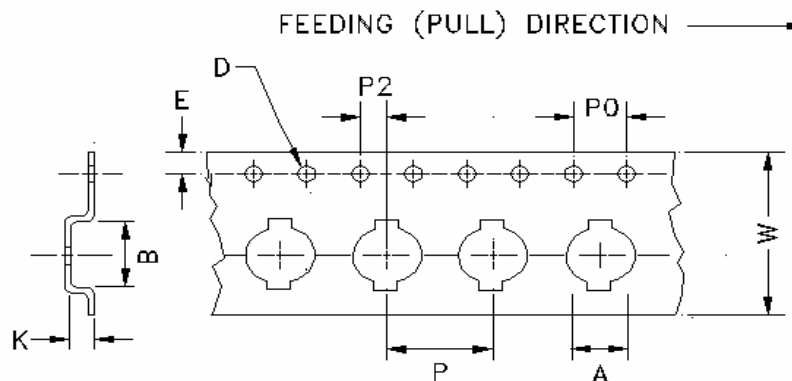
Recommended Land Pattern



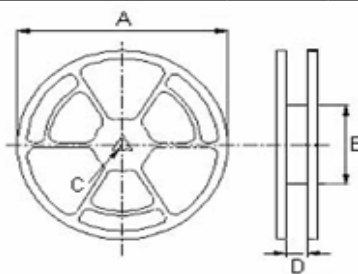
Part#	G	H	I	J
ASPI-4214S-xxx	0.055 ref. (1.4 ref.)	0.16 ref. (4.06 ref.)	0.27 ref. (6.86 ref.)	0.14 ref. (3.56 ref.)

Dimension : Inches (mm)

REFLOW PROFILE



Part#	A	B	K	D	E	W	P	P0	P2
ASPI-4214S-xxx	5.6 ref.	6.6 ref.	1.3 ref.	1.5 ref.	1.75 ref.	12 ref.	8 ref.	4 ref.	2 ref.



series	A	B	C	D
ASPI-4214S-xxx	330 ref.	100 ref.	13 ref.	13.4 ref.

Dimension: mm

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

