Low Profile Shielded SMD Chip Power Inductor



ASPI-2410

2.4 x 2.4 x 1.0mm
RoHS/RoHS Compliant

Features

- Small size and low profile: 1.0mm
- Small DCR and high rated current
- High reliability to mechanical stress
- Magnetically shielded by magnetic powder molding
- Suitable for RoHS reflow profile

Applications

- Mobile phones
- MP3 & 4 and other portable communication equipment
- Digital cameras

Electrical Specifications

Operating Temperature & Humidity:	-25˚C to +120˚C (Including self generated heat)
Storage Temperature & Humidity:	-10˚C to +40˚C, 30% to 70% RH

Part Number ASPI-2410- Inductance Code	Inductance	Inductance Tolerance	DCR		Self-Resonant Frequency	Saturation Current	Temperature Rise Current
			Max	Typ			
Units	µH	%	mΩ	mΩ	MHz	A	A
Symbol	L	M, N	DCR		SRF	Isat*	Irms*
ASPI-2410-R24	0.24	M	34	28	360	3.60	2.75
ASPI-2410-R33	0.33	M	43	36	270	3.80	2.40
ASPI-2410-R47	0.47	M	44	37	170	2.40	2.40
ASPI-2410-R68	0.68	M	61	51	110	2.75	2.10
ASPI-2410-1R0	1.0	M	80	67	84	2.05	1.80
ASPI-2410-1R5	1.5	M	108	90	60	1.70	1.55
ASPI-2410-2R2	2.2	M	137	114	56	1.55	1.40
ASPI-2410-3R3	3.3	M	228	170	39	1.10	1.10
ASPI-2410-4R7	4.7	M	323	269	28	1.00	0.91
ASPI-2410-6R8	6.8	M	451	376	25	0.82	0.76
ASPI-2410-100	10.0	M	584	487	20	0.65	0.67
ASPI-2410-150	15.0	M	954	795	19	0.55	0.50
ASPI-2410-220	22.0	M	1548	1290	15	0.45	0.40
ASPI-2410-330	33.0	M	1548	1290	10	0.25	0.40

ABRACON LLC
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 04-15-20

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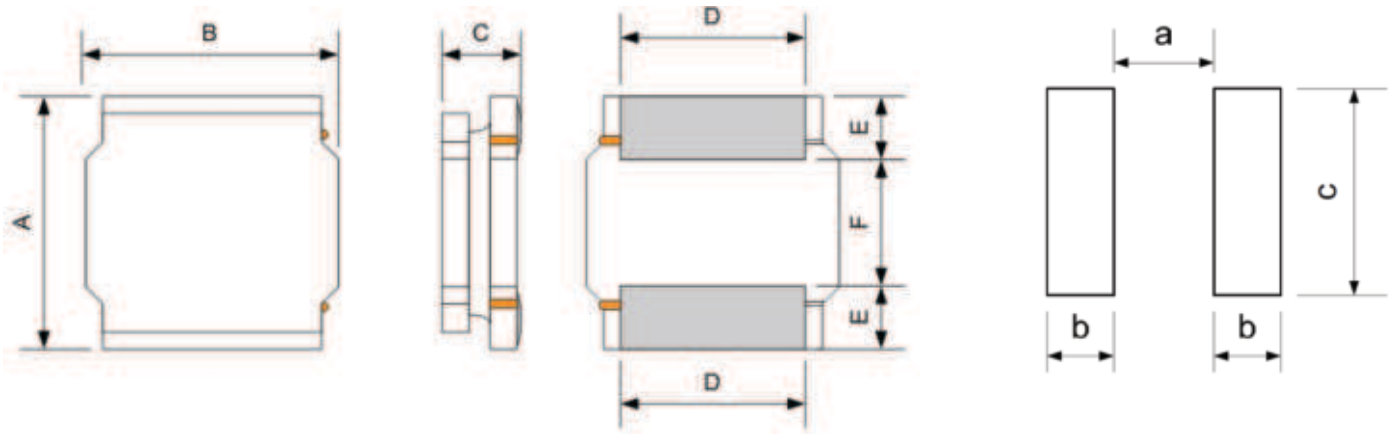
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RoHS/RoHS Compliant

Part Number Identification

ASPI-2410- ☐☐ -☐

Inductance Code	Tolerance	Packaging
Please refer to the Electrical Spec Table	M: ±20%*	T2: Tape and Reel (2kpcs / reel)

Mechanical Information



A	B	C	D	E	F	a Typ.	b Typ.	C Typ.
2.5 ± 0.2	2.0 ± 0.2	1.0 Max	2.0 ± 0.2	0.8 ± 0.2	0.8 ± 0.2	0.80	0.85	2.0

Dimensions: mm

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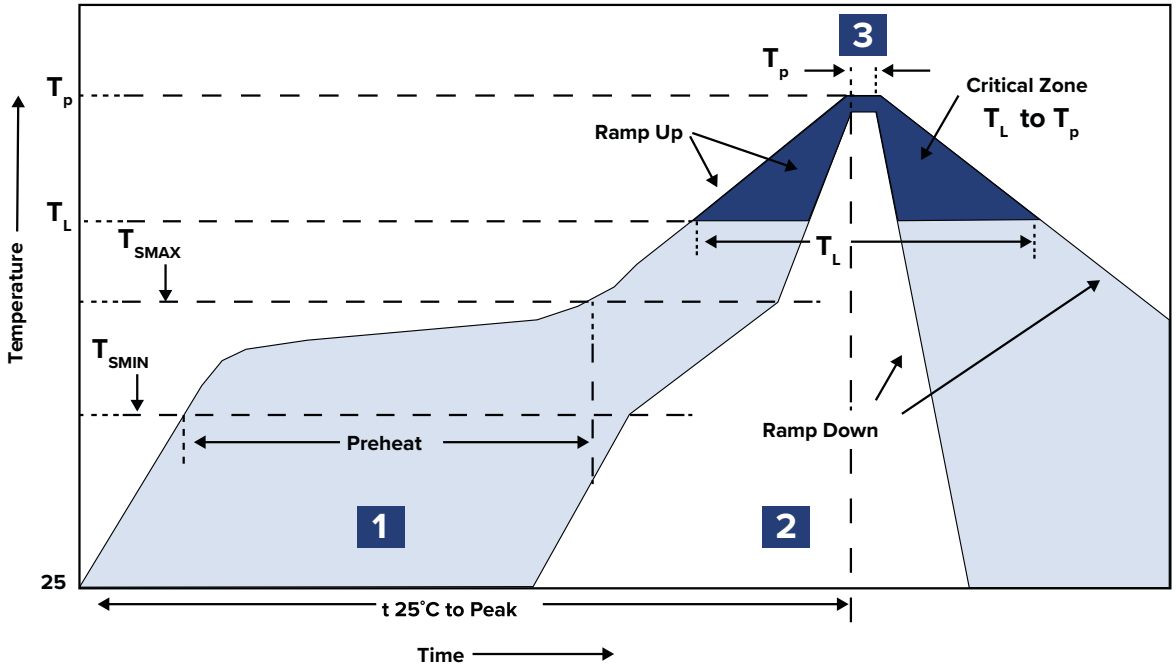
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Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	T_{SMIN} ~ T_{SMAX} 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 90 sec.
3	Peak heat	T_P 260°C ± 5°C	5 sec. MAX

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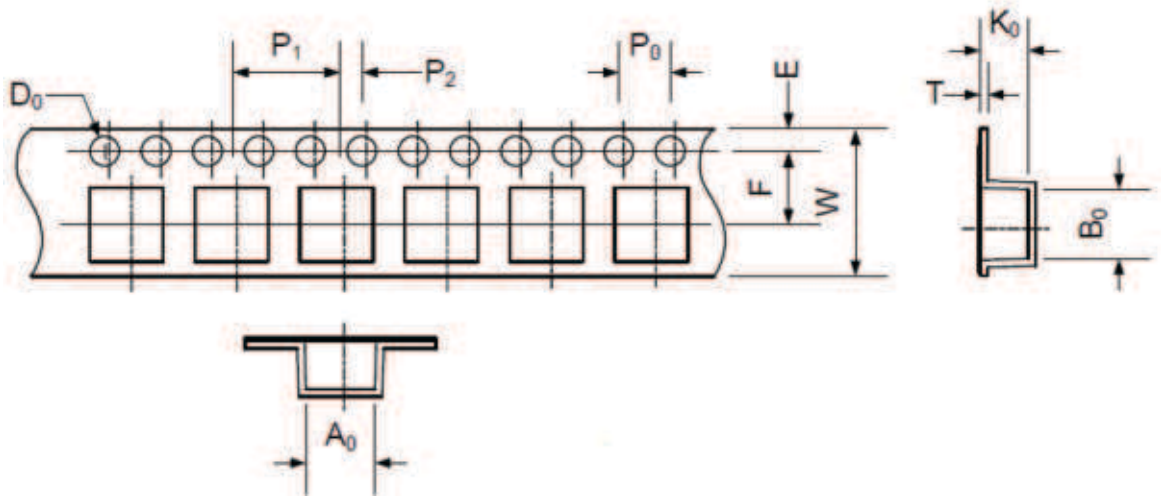
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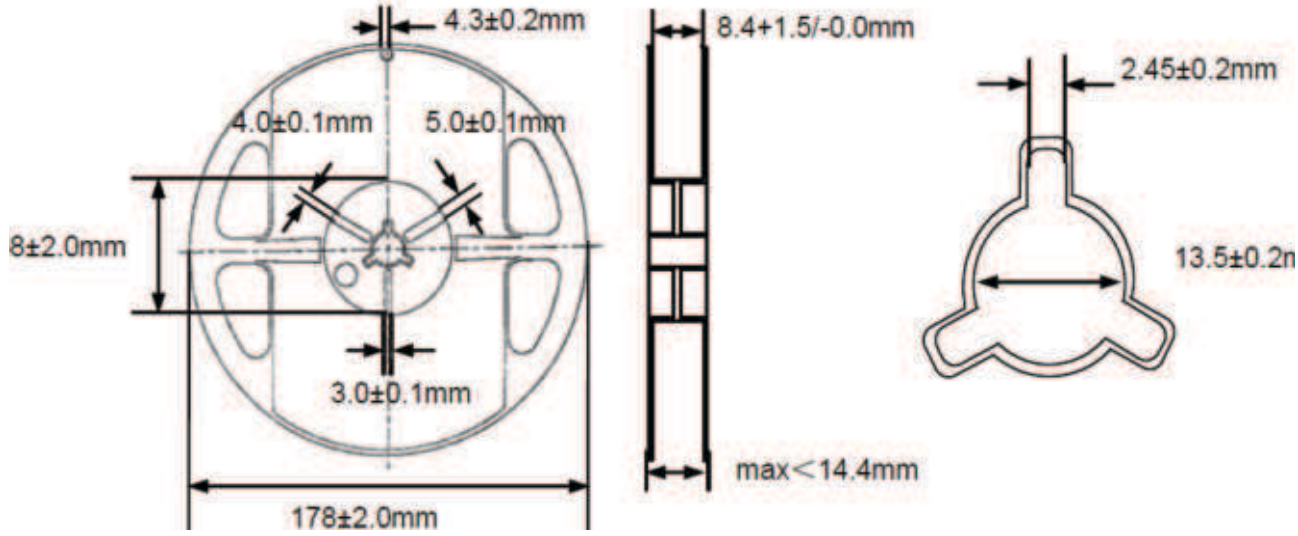
2.4 x 2.4 x 1.0mm
RoHS/RoHS Compliant

Packaging



A_0	B_0	W	E	F	P_0	P_1	P_2	D_0	T	K_0
2.45 ±0.05	2.75 ±0.05	8.0 ±0.1	1.75 ±0.1	3.5 ±0.05	4.0 ±0.1	4.0 ±0.1	2.0 ±0.05	1.5 +0.1/-0.0	0.25 ±0.03	1.20 ±0.05

Dimensions: mm



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