

ASPI-F1030

Request Samples



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11.9 x 11.0 x 2.9 mm RoHS/RoHS II Compliant MSL Level = 1

Features

- Shielded construction
- Soft saturation
- Low DCR, High Efficiency
- Designed for switching frequencies between 100KHz-2MHz

Applications

- Body electronics and comfort system
- Infotainment and entertainment
- Electric vehicles
- Lighting
- Solar inverters and power
- Industrial and robotics
- Medium and high power switch mode power supplies.

Electrical Specifications

Part Number	Inductance	Tolerance	DC Resistance	Saturation Current	Temperature Rise Current
	0.1MHz/0.1V		Max Max		Typ.
Units	μH	%	mΩ	A	A
Symbol	L	M	DCR	Isat	Irms
ASPI-F1030- R28	0.28	±20	1.60	58.0	35.0
ASPI-F1030- R56	0.56	±20	2.75	39.0	32.0
ASPI-F1030- R82	0.82	±20	4.10	32.0	25.0
ASPI-F1030- R90	0.90	±20	4.20	31.0	24.0
ASPI-F1030- 1R0	1.0	±20	4.95	30.0	23.0
ASPI-F1030- 1R5	1.5	±20	6.60	25.0	18.0

Test Conditions

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise (ΔT, approximate 40 °C) from 20°C ambient

Operating Temperature: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self-temperature rise) **Storage Condition:** $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (in original packaging) and R.H. 60 max

Operating Voltage: 40V (across inductor)

ASPI-F1030 Series is RoHS Compliant and Pb free

MSL level: 1





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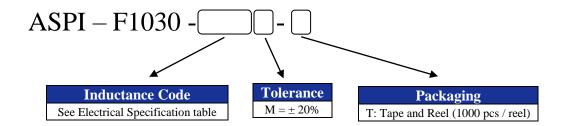


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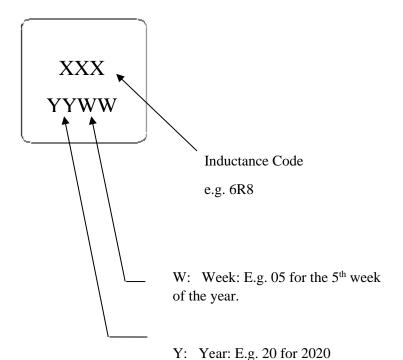


11.9 x 11.0 x 2.9 mm **RoHS/RoHS II Compliant** MSL Level = 1

Part Number Identification



Marking



Marking Method = Ink Marking





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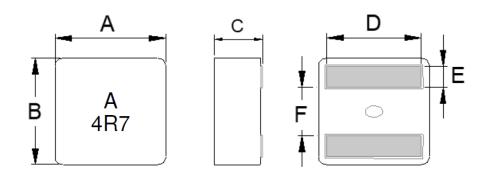


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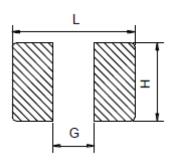


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Mechanical Dimensions



Series	A	В	C	D	E	F
ASPI-F1030	11.9 ± 0.3	11.0 ± 0.3	2.9 ± 0.2	9.0 ± 0.5	2.4 ± 0.2	4.4 ± 0.3



L	G	Н	
10.5 Ref.	3.7 Ref.	11.0 Ref.	

Dimensions: mm





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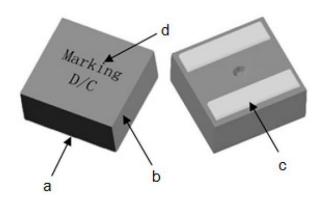


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Materials



	Components	Material
a	Core	Alloy powder
b	Wire	220 deg. C Flat Wire
С	Solder	100% Pb free solder
d	Ink	Halogen-free ketone





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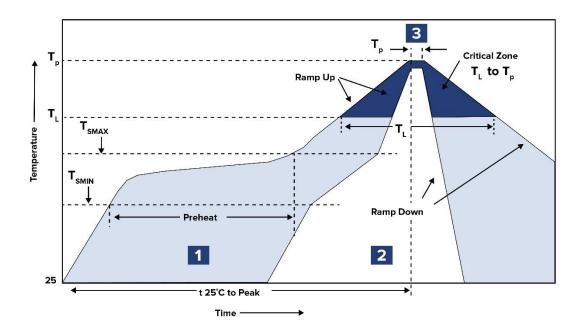


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T _L 217°C	60 ~ 150 sec.
3	Peak heat	T _P 260°C	10 sec. MAX





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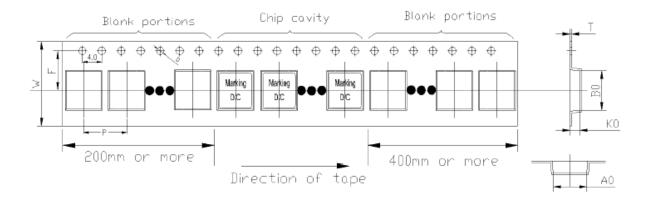
Check Inventory (>)



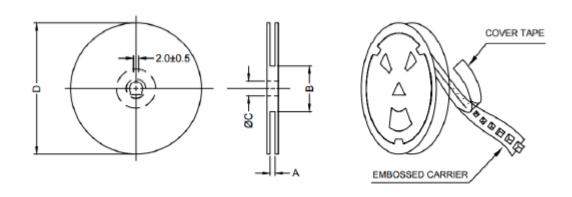
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Packaging

Tape & Reel: 1000 pcs/reel



W	F	P	D	\mathbf{A}_{0}	\mathbf{B}_0	T	\mathbf{K}_0
24.0 ± 0.3	11.5 ± 0.1	16.0 ± 0.1	1.5±0.1	12.4 ± 0.1	11.5 ± 0.1	0.35 ± 0.1	3.3 ± 0.1



A	В	C	D
24.4+2/-0	100 ± 2	13.0+0.5/-0.2	330

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