



ASPI-F6060

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6.6 x 6.4 x 6.1 mm **RoHS/RoHS II Compliant** MSL Level = 1

Features

- Shielded construction
- Soft saturation
- Low DCR, High Efficiency
- High temperature current rating

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/1.0V		Max	Тур.	Тур.	Тур.
Units	μН	%	m	${ m m}\Omega$		A
Symbol	L	M	DO	CR	Isat	Irms
ASPI-F6060-R33M-T	0.33	20	2.20	1.98	30.0	31.8
ASPI-F6060-R56M-T	0.56	20	2.90	2.60	23.0	27.7
ASPI-F6060-R82M-T	0.82	20	3.33	3.03	20.0	25.7
ASPI-F6060-1R0M-T	1.0	20	4.07	3.70	20.0	23.2
ASPI-F6060-1R5M-T	1.5	20	4.71	4.28	19.0	21.6
ASPI-F6060-2R2M-T	2.2	20	6.70	6.10	16.0	18.1
ASPI-F6060-2R7M-T	2.7	20	7.63	6.94	13.8	17.0
ASPI-F6060-3R3M-T	3.3	20	8.69	7.90	12.6	15.3
ASPI-F6060-4R7M-T	4.7	20	15.02	13.65	11.4	12.1
ASPI-F6060-6R8M-T	6.8	20	22.90	20.82	7.9	9.8
ASPI-F6060-8R2M-T	8.2	20	24.98	22.71	7.6	9.4
ASPI-F6060-100M-T	10.0	20	28.71	26.10	6.9	8.4
ASPI-F6060-120M-T	12.0	20	40.33	33.66	5.8	7.4

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 25 °C ambient.

Operating Temperature: -55° C $\sim +125^{\circ}$ C (including self-temperature rise)

Storage Condition: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (on board), $25^{\circ}\text{C} \sim +35^{\circ}\text{C}$ (with packaging) and R.H. 85 max

ASPI-F6060 Series is RoHS Compliant and Pb free



REVISION: IR 04-25-23



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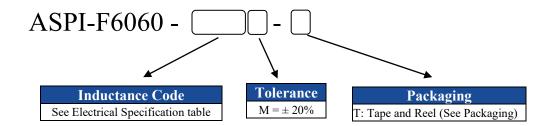


Check Inventory (>)

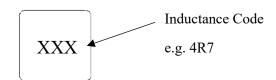


6.6 x 6.4 x 6.1 mm **RoHS/RoHS II Compliant** MSL Level = 1

Part Identification

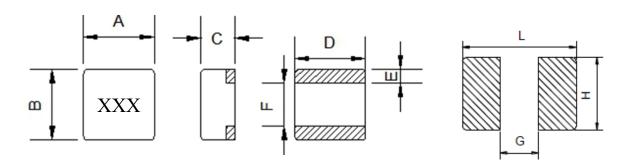


Marking



Marking Method = Ink Marking

Mechanical Specifications



Series	A	В	C	D	E	F	G	H	L
ASPI-F6060	6.6 ± 0.3	6.4 ± 0.3	6.1 Max	6.6 ± 0.3	2.0 ± 0.3	2.4 ± 0.3	2.2 Ref.	7.0 Ref.	6.8 Ref.

Dimensions: mm





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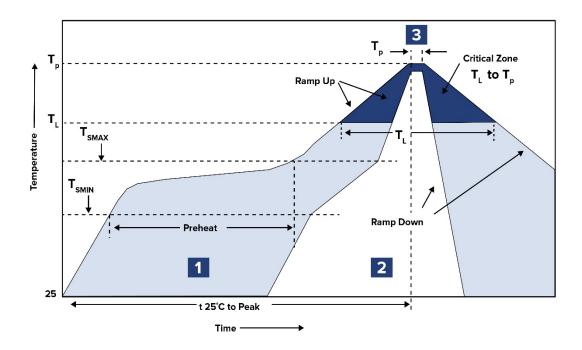


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$\begin{split} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{split}$	$20 \sim 120 \text{ sec.}$
2	Reflow	T _L 217°C	60 ∼ 150 sec.
3	Peak heat	Т _Р 260°С	10 sec. MAX







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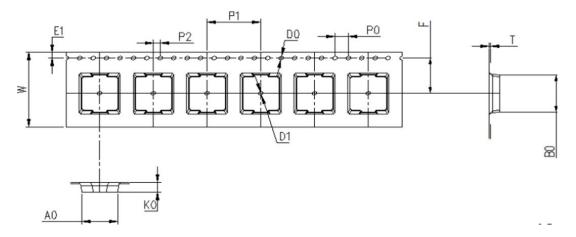
Check Inventory (>)



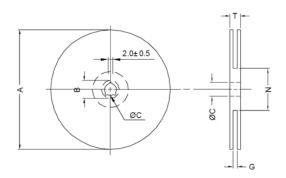
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Packaging

Tape & Reel: 750 pcs/reel



	A0	В0	K0	P1	P2	W	F	T	D0
6	5.9±0.1	8.0±0.1	6.30±0.1	12.00±0.1	2.0±0.1	16.00±0.2	7.50±0.1	0.4 ± 0.1	1.50±0.1



A	C	G	N	T
330.0 ± 2.0	13.0±0.5	16.4±1.0	100.0 ± 1.0	22.4 Max

Dimensions: mm

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