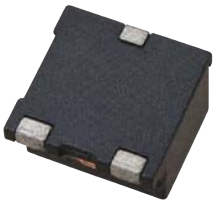
Shielded Power Inductors

Shielded Power Inductors - SPQ3018H Series



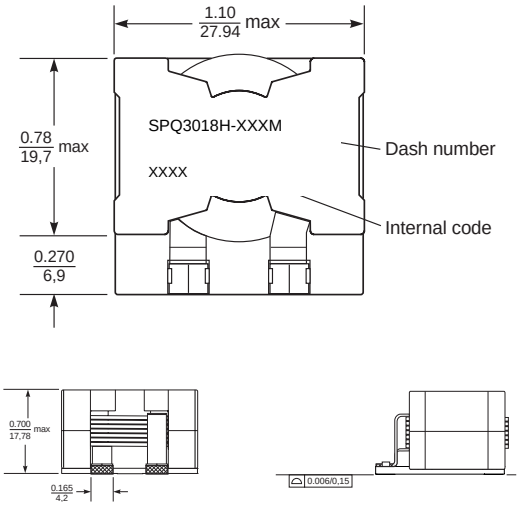
Features

- Low DCR; three-pad mounting plate
- Saturation current up to 93.6 A [2]
- Operating voltage: 400 V
- Ambient: -40 to +85 deg C [4]

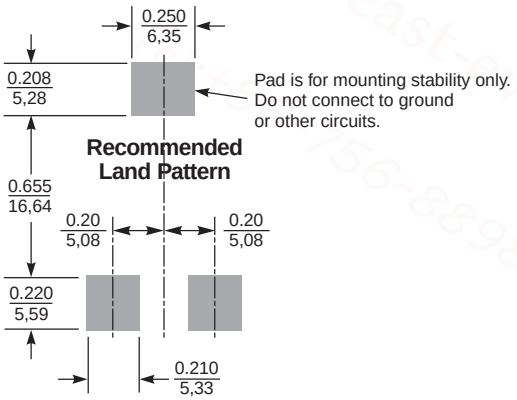
Applications

- High-current power supplies
- Point-of-load (POL) converters
- Voltage regulator modules (VRM)
- Voltage regulator-down (VRD)

OUTLINE DIMENSIONS



RECOMMENDED LAND PATTERN



Dimensions: inches / mm. Not to scale.

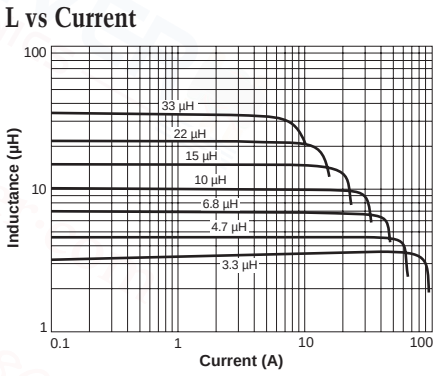
ELECTRICAL CHARACTERISTICS AT 25 deg C

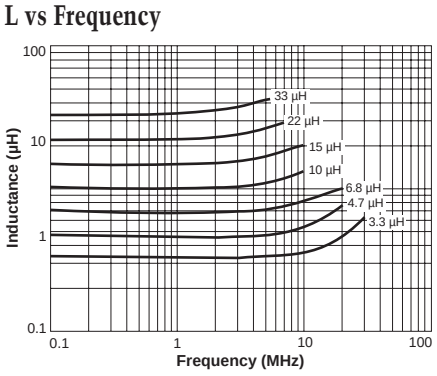
Part number	L [1] +/-10% (uH)	DCR nom. (mOhm)	DCR max. (mOhm)	SRF typ. (MHz)	Isat [2] 10% (A)	Isat [2] 20% (A)	Isat [2] 30% (A)	Irms [3] 20 deg C (A)	Irms [3] 40 deg C (A)
SPQ3018H-3R3M	3.3	2.56	2.82	40	91.0	92.5	93.6	20	28
SPQ3018H-4R7M	4.7	2.56	2.82	30	59.0	61.2	62.4	20	28
SPQ3018H-6R8M	6.8	2.56	2.82	25	42.0	45.0	45.9	20	28
SPQ3018H-10R0M	10	2.56	2.82	20	28.0	31.2	32.1	20	28
SPQ3018H-15R0M	15	2.56	2.82	16	18.0	21.2	21.9	20	28
SPQ3018H-22R0M	22	2.56	2.82	15	12.0	14.0	15.0	20	28
SPQ3018H-33R0M	33	2.56	2.82	10	7.0	8.7	9.6	20	28

GENERAL CHARACTERISTICS

Parameter	Specification
Core material	Ferrite
Maximum height / weight	17.78 mm / 36.2 g
Operating voltage	400 V
Maximum part temperature	125 deg C (ambient + rise)
Packaging	25 pieces per tray

TYPICAL CHARACTERISTICS





[1] L measured at 500 kHz, 0.1 Vrms, 0 Adc.

[2] Isat: current causing 10%, 20% or 30% L drop at 25 deg C.

[3] Irms: specified temperature rise from 25 deg C.

[4] Ambient rating at 40 deg C rise Irms; max. part temp. 125 deg C.

Mounting pad: do not connect to ground or other circuits.

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