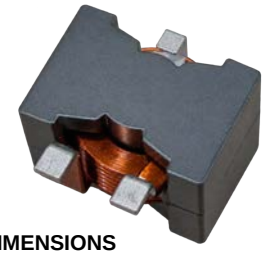
Shielded Power Inductors

Shielded Power Inductors - SPQ2915L / SPQ2915H / SPQ2918H Series



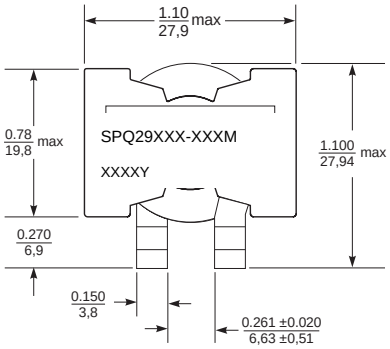
Features

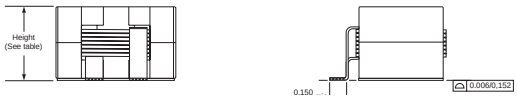
- Shielded ferrite construction
- Low DCR; third mounting pad
- Current handling above 100 A [2]
- Ambient: -40 to +85 deg C [4]

Applications

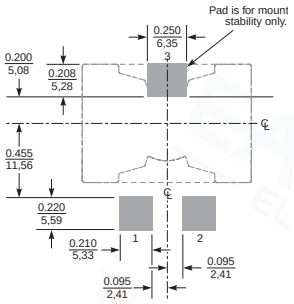
- High-current power supplies
- Point-of-load (POL) converters
- Voltage regulator modules (VRM)
- Voltage regulator-down (VRD)

OUTLINE DIMENSIONS





RECOMMENDED LAND PATTERN

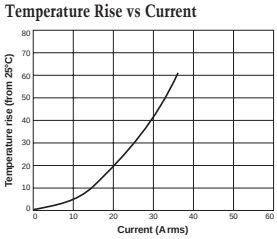


Recommended
Land Pattern

HEIGHT & WEIGHT

Series	Height max. (mm)	Weight (g)
SPQ2915L	15.36	28.5
SPQ2915H	15.36	29.7
SPQ2918H	17.78	35.7

TEMPERATURE RISE vs CURRENT



Dimensions: inches / mm. Drawings not to scale.

ELECTRICAL CHARACTERISTICS @ 25℃

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)
SPQ2915L-1R5M	1.5	1.50	1.65	60	100	>100	>100	20	30
SPQ2915H-2R2M	2.2	1.86	2.05	40	100	>100	>100	20	30
SPQ2915L-2R2M	2.2	1.50	1.65	50	82.0	84.0	84.8	20	30
SPQ2918H-3R3M	3.3	2.60	2.86	40	91.0	92.5	93.6	20	28
SPQ2915H-3R3M	3.3	1.86	2.05	30	62.0	66.9	68.4	20	30
SPQ2915L-3R3M	3.3	1.50	1.65	40	48.0	54.0	57.0	20	30
SPQ2918H-4R7M	4.7	2.60	2.86	30	59.0	61.2	62.4	20	28
SPQ2915H-4R7M	4.7	1.86	2.05	25	42.0	48.0	50.1	20	30
SPQ2915L-4R7M	4.7	1.50	1.65	30	33.0	36.9	39.0	20	30
SPQ2918H-6R8M	6.8	2.60	2.86	25	42.0	45.0	45.9	20	28
SPQ2915H-6R8M	6.8	1.86	2.05	20	30.0	34.5	36.2	20	30
SPQ2915L-6R8M	6.8	1.50	1.65	25	22.0	26.0	27.8	20	30
SPQ2918H-100M	10	2.60	2.86	20	28.0	31.2	32.1	20	28
SPQ2915H-100M	10	1.86	2.05	15	18.0	21.5	23.4	20	30
SPQ2915L-100M	10	1.50	1.65	20	13.0	16.2	17.6	20	30
SPQ2915L-150M	15	2.60	2.86	16	18.0	21.2	21.9	20	28
SPQ2915L-150M	15	1.86	2.05	12	11.5	14.0	15.2	20	30
SPQ2915L-150M	15	1.50	1.65	15	7.5	9.8	11.0	20	30
SPQ2918H-220M	22	2.60	2.86	15	12.0	14.0	15.0	20	28
SPQ2915H-220M	22	1.86	2.05	10	7.0	8.6	9.6	20	30
SPQ2915L-220M	22	1.50	1.65	10	4.5	6.0	6.8	20	30
SPQ2918H-330M	33	2.60	2.86	10	7.0	8.7	9.6	20	28
SPQ2915H-330M	33	1.86	2.05	8	4.0	5.1	5.9	20	30
SPQ2915L-330M	33	1.50	1.65	7	2.0	2.6	3.3	20	30

[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.

GENERAL CHARACTERISTICS

Parameter	Specification
Core material	Ferrite
Maxim um part temperature	125 deg C (ambient + rise)
Packaging	25 pieces per tray
Third mounting pad	For mounting stability only

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