

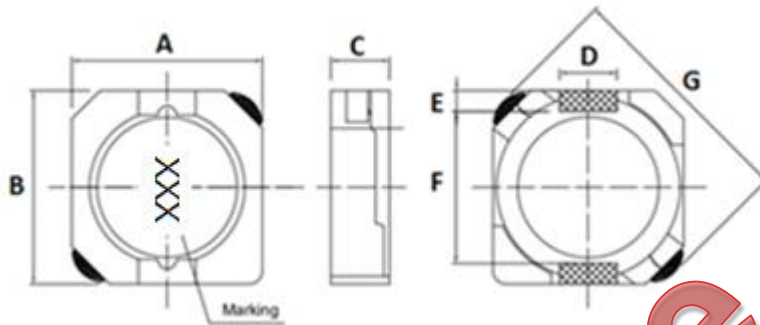
SRS105-Series-Z3 Specification

SMD Shielded Power Inductor

APPLICATION

Tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, Telecommunications, Consumer electronics, Compact power supply modules, other

1. Shapes and Dimensions



Unit: mm

Type	A	B	C	D	E	F	G
SRS105	10.3 Max.	10.6 Max.	5.1 Max.	3.0 Ref.	1.2 Ref.	7.7 Ref.	13.5 Ref.

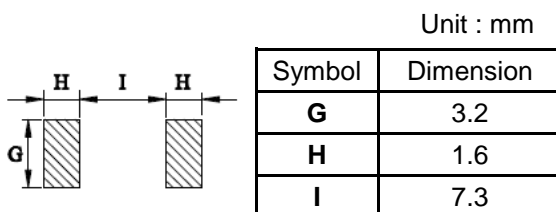
2. Ordering / Part Number Information

SRS 105 - 100 M - Z3
(1) (2) (3) (4) (5)

- (1) Product Group
- (2) Dimension Code
- (3) Inductance Code
- (4) Inductance Tolerance
- (5) Control Code

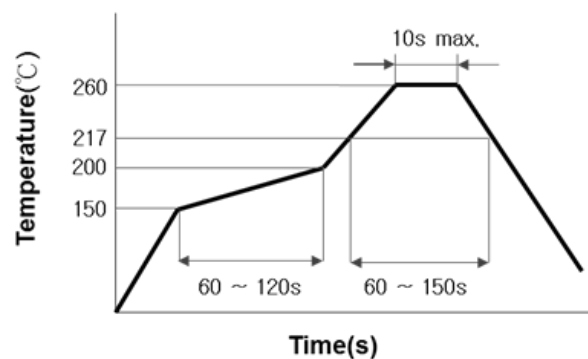
3. Recommended Soldering Condition

3-1. Recommended Land Pattern



The Recommended Land pattern is for reference only.
Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

3-2. Recommended Soldering Profile



4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L) @100kHz, 1.0V	DC Resistance (RDC) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.
SRS105-1R5N-Z3	1.5 μ H \pm 30%	5.8m Ω	10.50A	8.30A
SRS105-2R2N-Z3	2.2 μ H \pm 30%	7.2m Ω	9.25A	7.50A
SRS105-3R3N-Z3	3.3 μ H \pm 30%	10.4m Ω	7.80A	6.50A
SRS105-4R7M-Z3	4.7 μ H \pm 20%	12.3m Ω	6.40A	6.10A
SRS105-6R8N-Z3	6.8 μ H \pm 30%	18.0m Ω	5.40A	5.40A
SRS105-8R2M-Z3	8.2 μ H \pm 20%	20.0m Ω	4.85A	5.00A
SRS105-100M-Z3	10.0 μ H \pm 20%	26.0m Ω	4.45A	4.50A
SRS105-120M-Z3	12.0 μ H \pm 20%	33.0m Ω	4.00A	3.80A
SRS105-150M-Z3	15.0 μ H \pm 20%	41.0m Ω	3.60A	3.40A
SRS105-180M-Z3	18.0 μ H \pm 20%	46.0m Ω	3.20A	3.10A
SRS105-220M-Z3	22.0 μ H \pm 20%	61.0m Ω	2.95A	2.90A
SRS105-270M-Z3	27.0 μ H \pm 20%	69.0m Ω	2.70A	2.60A
SRS105-330M-Z3	33.0 μ H \pm 20%	84.0m Ω	2.40A	2.50A
SRS105-390M-Z3	39.0 μ H \pm 20%	106.0m Ω	2.30A	2.25A
SRS105-470M-Z3	47.0 μ H \pm 20%	130.0m Ω	2.00A	2.00A
SRS105-560M-Z3	56.0 μ H \pm 20%	149.0m Ω	1.90A	1.90A
SRS105-680M-Z3	68.0 μ H \pm 20%	201.0m Ω	1.65A	1.60A
SRS105-820M-Z3	82.0 μ H \pm 20%	227.0m Ω	1.50A	1.45A
SRS105-101M-Z3	100.0 μ H \pm 20%	253.0m Ω	1.35A	1.35A
SRS105-121M-Z3	120.0 μ H \pm 20%	303.0m Ω	1.28A	1.18A
SRS105-151M-Z3	150.0 μ H \pm 20%	370.0m Ω	1.12A	1.10A
SRS105-181M-Z3	180.0 μ H \pm 20%	419.0m Ω	1.04A	1.00A
SRS105-221M-Z3	220.0 μ H \pm 20%	500.0m Ω	0.94A	0.94A
SRS105-271M-Z3	270.0 μ H \pm 20%	672.0m Ω	0.84A	0.80A
SRS105-331M-Z3	330.0 μ H \pm 20%	812.0m Ω	0.75A	0.73A
SRS105-391M-Z3	390.0 μ H \pm 20%	953.0m Ω	0.70A	0.70A
SRS105-471M-Z3	470.0 μ H \pm 20%	1289.0m Ω	0.60A	0.54A
SRS105-561M-Z3	560.0 μ H \pm 20%	1430.0m Ω	0.54A	0.52A
SRS105-681M-Z3	680.0 μ H \pm 20%	1599.0m Ω	0.52A	0.51A

Note1. The saturation current is DC current value Inductance decrease down to 35%.

(Test by a short period of time to minimize the self-heating effect of the component.)

Note2. Temperature Rise Current for a 45°C rise above 25°C ambient

4-2. Operating Temperature Range

-40°C to +125°C (Including self - temperature rise)

4-3. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

5. Package Quantity

Standard Quantity for Packaging: 700 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

Reference