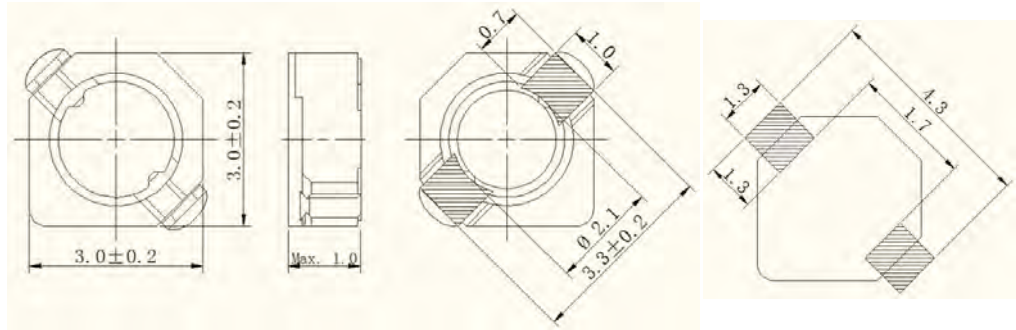


SDRH2D09

1. Dimension (Unit: mm)



2. Description

- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H: 3.2×3.2×1.0 mm Max.
- Product weight: 28mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance and Halogen Free available.

3. Environmental Data

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C.
- Solder reflow temperature: 260°C peak.

4. Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1500pcs per reel

5. Applications

- Ideally used in PDA, MP3, DSC/DVC, HDD, Portable DVD, etc as DC-DC Converter inductors.

SDRH2D09

6. Electrical Characteristics

Part NO.	Stamp	Inductance (μH) ※1	D.C.R. ($\text{m}\Omega$) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				20°C	100°C	
SDRH2D09-1R0M	1R0	1.0±25%	70±25%	0.80	0.59	1.34
SDRH2D09-1R5M	1R5	1.5±25%	78±25%	0.73	0.52	1.15
SDRH2D09-1R8M	1R8	1.8±25%	98±25%	0.65	0.48	1.06
SDRH2D09-2R2M	2R2	2.2±25%	120±25%	0.60	0.44	1.05
SDRH2D09-2R5M	2R5	2.5±25%	135±25%	0.53	0.40	0.98
SDRH2D09-3R0M	3R0	3.0±25%	150±25%	0.47	0.36	0.84
SDRH2D09-3R9M	3R9	3.9±25%	205±25%	0.45	0.33	0.72
SDRH2D09-4R7M	4R7	4.7±25%	220±25%	0.41	0.30	0.64
SDRH2D09-5R6M	5R6	5.6±25%	320±25%	0.37	0.27	0.59
SDRH2D09-6R8M	6R8	6.8±25%	340±25%	0.33	0.24	0.53
SDRH2D09-8R2M	8R2	8.2±25%	390±25%	0.30	0.22	0.46
SDRH2D09-100M	100	10±25%	450±25%	0.28	0.20	0.42

※1. Inductance measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).