

CMW9250 TYPE

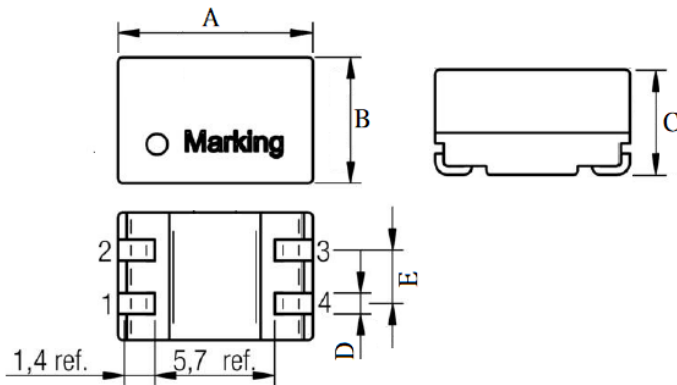
● FEATURE

1. Common mode line filter.
2. Same as BOURNS SRF0905A

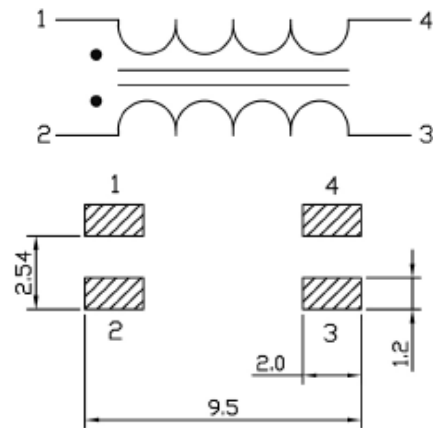
● Applications

1. Used for power line noise suppression for any electric devices.

● Shape and Dimension



● Schematics and Land Patterns(mm)



A=9.20±0.30 m/m ; B=6.00±0.30 m/m ; C=5.00±0.03 m/m; D=1.00±0.20 m/m; E=2.54±0.20 m/m

● Specification

Part number	STAMP	Inductance (uH)	Test Frequency	DCR (Ω Max)	I _{rms} (A) ΔT=40°C	Impedance (Z) min.	Freq. (MHz).
CMW9250-100	100	10±30%	1KHz	0.08	1.6	200Ω	20
CMW9250-250	250	25±30%	1KHz	0.12	1.0	600Ω	20
CMW9250-400	400	40±30%	1KHz	0.25	0.9	800Ω	20
CMW9250-510	510	51±30%	100KHz	0.16	1.0	1500Ω	20
CMW9250-251	251	250±50%	100KHz	0.13	1.2	600Ω	3.0
CMW9250-501	501	500±50%	100KHz	0.15	1.0	1000Ω	1.0
CMW9250-202	202	2000±50%	100KHz	0.42	0.6	3000Ω	1.0
CMW9250-472	472	4700±50%	100KHz	0.75	0.5	4000Ω	0.3
CMW9250-652	652	6500±50%	100KHz	0.95	0.4	5000Ω	0.3

Note1. Rated Voltage(V): 80

Note2. Insulation Test Voltage (Vac): 500 MAX

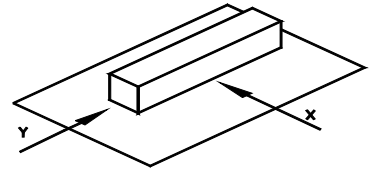
Note3. Measurement ambient temperature of Impedance, DCR and IDC : at 25°C

Note4. Packing: reel ; Quantity: 1000pcs/reel

GENERAL CHARACTERISTICS

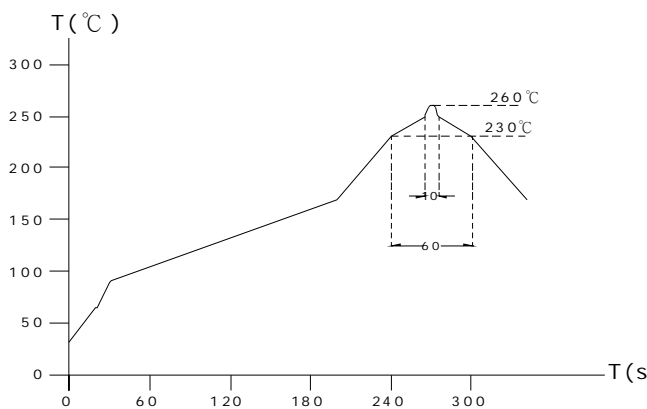
1. Operating temperature range: -40 TO +125°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 125V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000) \times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics (Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds (See attached recommend reflow)
11. Storage condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 125°C (after PCB) · Humidity Range: 50% ~ 70% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition

