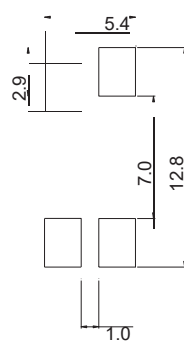
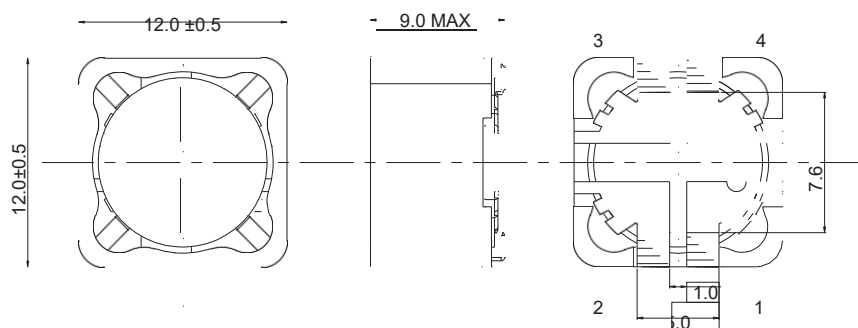


MTI-SDR1209A_{SERIES}

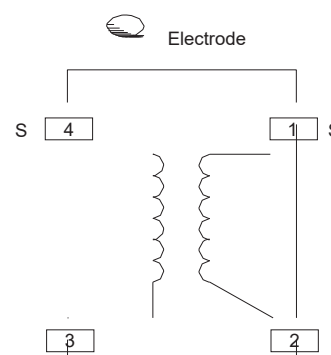
SMD Power Inductor



- Ferrite core construction
- L*W*H :12.5 * 12.5 *9.0 Max.
- High temperature inductor for Automotive application
- Operation temperature range : -40 degree to +125 degree
(Including coil's self temp. rise)
- RoHs compliance
- Halogen free available
- Qualified to AEC-Q200



Land Pattern



Schematics

UNIT:mm

Electrical Specifications at 25°C
MTI-SDR1209A-151-T125

Measuring Item	PIN No.		Measuring condition
Inductance	(1-2)	150μH±20% within	1kHz, 1V
	(4-3)	40μH±20% within	1kHz, 1V
DCR	(1-2)	0.23 Ω Max (0.15 Ω Typ.)	at 20 °C
	(4-3)	0.66Ω Max (0.5 Ω Typ.)	at 21 °C
Saturation Current	(1-2)	2.1A	
	(4-3)	3.5A	
Temperature Rise Current	(1-2)	2.0A	
	(4-3)	1.0A	

1. Saturation current: The value of D.C current when the inductance decreases to 65% of it's normal value.
2. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)



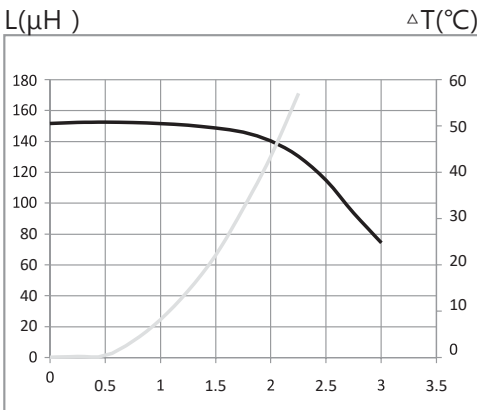
MTI-SDR1209A_{SERIES}

SMD Power Inductor

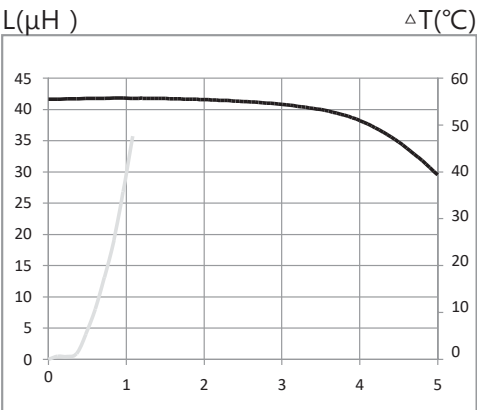
Saturated Current and Temperature Rise Graph.

———— L(25°C) ———— ΔT

MTI-SDR1209A-151-T125 (1-2)



MTI-SDR1209A-151-T125 (4-3)



MTI-SDR1209A