Semi-shielded Power Inductors - MS54S Series

Meisongbei



Features

- Semi-shielded construction
- Coating: Magnetic epoxy resin
- High rated current

Package

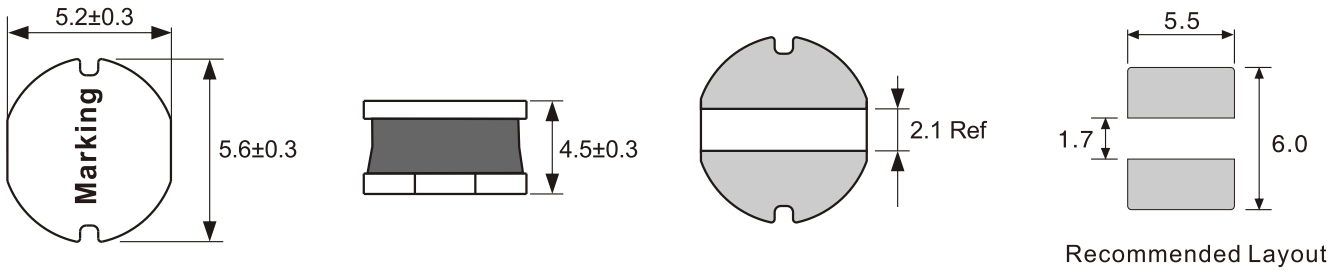
- MS54S - 1500 PCS/Reel

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Shape and Dimensions (Unit:mm)



Recommended Layout

Electrical Characteristics @ 25°C

Part Number	Inductance [μH]	DCR(max) [Ω]	Irms [A]	Isat [A]
MS54S-1R0N	1.0 ±30%	0.014	4.2	8.5
MS54S-1R3N	1.3 ±30%	0.017	4.0	8.0
MS54S-1R8N	1.8 ±30%	0.020	3.7	7.0
MS54S-2R2N	2.2 ±30%	0.025	3.5	6.0
MS54S-3R3N	3.3 ±30%	0.031	3.2	5.0
MS54S-4R7N	4.7 ±30%	0.038	3.0	4.0
MS54S-6R8N	6.8 ±30%	0.048	2.8	3.8
MS54S-8R2N	8.2 ±30%	0.055	2.7	3.3
MS54S-100M	10 ±20%	0.059	2.5	3.0
MS54S-150M	15 ±20%	0.096	1.9	2.3
MS54S-220M	22 ±20%	0.142	1.5	1.9
MS54S-330M	33 ±20%	0.188	1.4	1.5
MS54S-470M	47 ±20%	0.257	1.1	1.3
MS54S-680M	68 ±20%	0.351	0.9	1.0
MS54S-101M	100 ±20%	0.500	0.7	0.8
MS54S-221M	220 ±20%	1.180	0.6	0.7

- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current