SMD Power Inductors - MSRH105 Series

Meisongbei



Features

- Magnetically shielded construction
- Large Current and Low DCR

Package

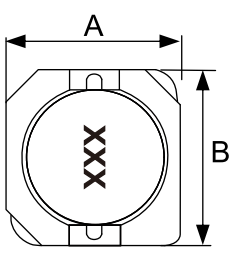
- MSRH105 - 800 PCS/Reel

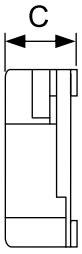
General Specifications

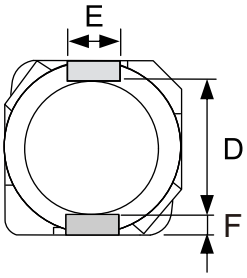
- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

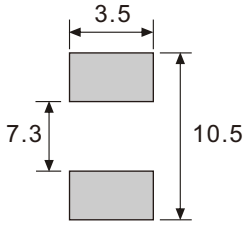
RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Shape and Dimensions (Unit:mm)









Recommended Layout

Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)
MSRH105	10.3	10.5	5.1	7.7	3.0	1.2

Electrical Characteristics For MSRH105 Series

Part Number	Inductance [μH]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH105-6R8N	6.8 ±30%	0.018	5.50	6.20
MSRH105-100M	10 ±20%	0.026	4.45	4.50
MSRH105-120M	12 ±20%	0.033	4.00	4.00
MSRH105-150M	15 ±20%	0.041	3.60	3.80
MSRH105-180M	18 ±20%	0.046	3.20	3.42
MSRH105-220M	22 ±20%	0.061	2.95	3.07
MSRH105-270M	27 ±20%	0.069	2.70	2.76
MSRH105-330M	33 ±20%	0.084	2.40	2.48
MSRH105-470M	47 ±20%	0.130	2.00	2.11
MSRH105-560M	56 ±20%	0.149	1.90	2.00
MSRH105-680M	68 ±20%	0.201	1.65	1.70
MSRH105-820M	82 ±20%	0.227	1.50	1.53
MSRH105-101M	100 ±20%	0.253	1.35	1.35
MSRH105-121M	120 ±20%	0.303	1.28	1.28
MSRH105-151M	150 ±20%	0.370	1.12	1.15
MSRH105-181M	180 ±20%	0.419	1.04	1.09
MSRH105-221M	220 ±20%	0.500	0.94	0.93
MSRH105-271M	270 ±20%	0.672	0.84	0.85
MSRH105-331M	330 ±20%	0.812	0.75	0.76
MSRH105-471M	470 ±20%	1.300	0.60	0.60
MSRH105-561M	560 ±20%	1.430	0.54	0.57
MSRH105-681M	680 ±20%	1.600	0.52	0.54
MSRH105-821M	820 ±20%	1.770	0.50	0.50
MSRH105-102M	1000 ±20%	1.990	0.48	0.46

- Inductance tested at 100kHz
- 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