SMT Power Inductors MSP1608 Series

Meisongbei



Features

- High energy storage and very low DCR
- Magnetically unshielded
- Ferrite core, Ceramic Base

Package

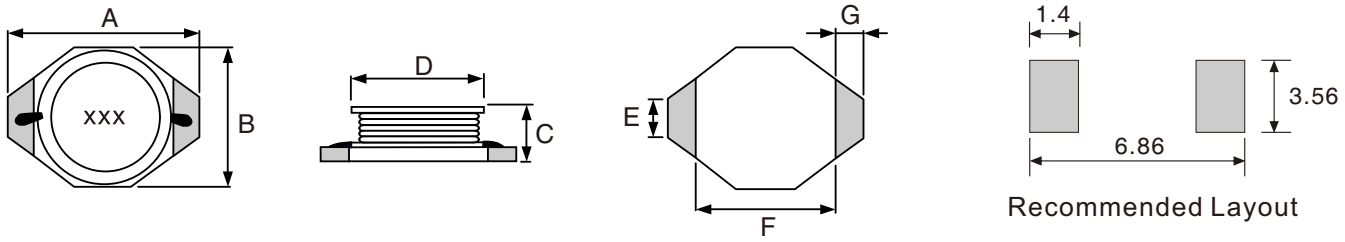
- MSP1608 - 2500 PCS/Reel

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)



Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)	G (Ref)
MSP1608	6.60	4.45	2.92	3.94	1.27	4.32	1.02

Electrical Characteristics For MSP1608 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP1608-1R0M	1.0 ±20%	50	130	2.9	2.9
MSP1608-1R5M	1.5 ±20%	50	115	2.6	2.8
MSP1608-2R2M	2.2 ±20%	70	100	2.3	2.4
MSP1608-2R7M	2.7 ±20%	80	75	2.1	2.1
MSP1608-3R3M	3.3 ±20%	80	70	2.0	2.0
MSP1608-4R7M	4.7 ±20%	90	50	1.5	1.5
MSP1608-6R8M	6.8 ±20%	130	45	1.2	1.4
MSP1608-8R2M	8.2 ±20%	160	40	1.15	1.3
MSP1608-100M	10 ±20%	160	35	1.10	1.2
MSP1608-150M	15 ±20%	230	30	0.90	1.1
MSP1608-220M	22 ±20%	370	20	0.70	0.8
MSP1608-330M	33 ±20%	510	15	0.58	0.6
MSP1608-470M	47 ±20%	640	14	0.50	0.5
MSP1608-680M	68 ±20%	860	11	0.40	0.4
MSP1608-101M	100 ±20%	1270	9	0.31	0.3
MSP1608-151M	150 ±20%	2000	6	0.27	0.25
MSP1608-221M	220 ±20%	3100	5.5	0.22	0.20
MSP1608-331M	330 ±20%	3800	5	0.18	0.16
MSP1608-471M	470 ±20%	5060	4	0.16	0.15
MSP1608-681M	680 ±20%	9200	3	0.14	0.12
MSP1608-102M	1000 ±20%	13800	2	0.10	0.07

- Inductance tested at 100kHz, 0.25Vrms, 0.0Adc
- 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 10% from its value without current