SMT Power Inductors MSP5022 Series

Meisongbei



Features

- Excellent current handing
- Low DCR keeps power losses to a minimum
- Ferrite core

Package

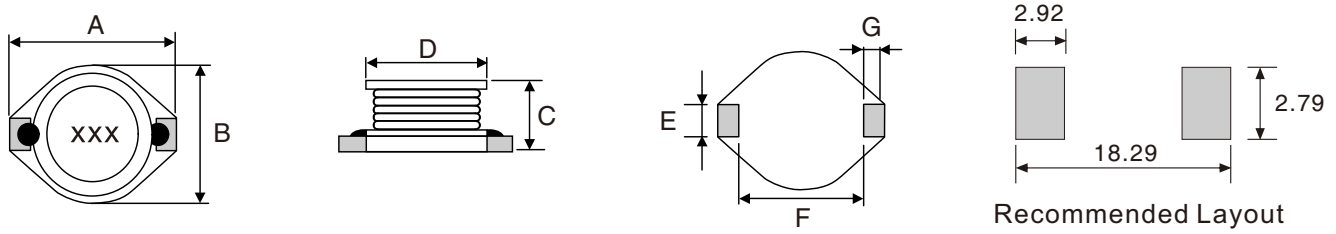
- MSP5022 - 500 PCS/Reel

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)	G (Ref)
MSP5022	18.54	15.24	7.11	12.7	2.54	12.65	2.54

Electrical Characteristics For MSP5022 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP5022-1R0M	1.0 ±20%	9	80	20.0	8.6
MSP5022-2R2M	2.2 ±20%	14	80	16.0	7.1
MSP5022-3R3M	3.3 ±20%	20	60	14.0	6.2
MSP5022-5R6M	5.6 ±20%	24	40	12.0	5.3
MSP5022-100M	10 ±20%	31	30	10.0	4.3
MSP5022-150M	15 ±20%	36	22	8.0	4.0
MSP5022-220M	22 ±20%	47	20	7.0	3.5
MSP5022-330M	33 ±20%	66	15	5.5	3.0
MSP5022-470M	47 ±20%	95	9	4.5	2.6
MSP5022-680M	68 ±20%	130	8	3.5	2.3
MSP5022-101M	100 ±20%	190	7	3.0	1.8
MSP5022-151M	150 ±20%	250	6	2.6	1.5
MSP5022-221M	220 ±20%	380	5	2.4	1.2
MSP5022-331M	330 ±20%	560	4	1.9	1.0
MSP5022-471M	470 ±20%	850	3	1.4	0.82
MSP5022-681M	680 ±20%	1100	2.5	1.2	0.72
MSP5022-102M	1000 ±20%	1800	2	1.0	0.56

- 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