



Features

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

Package

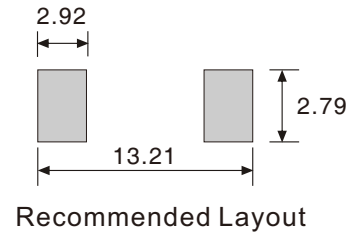
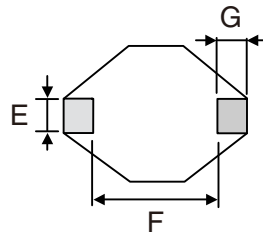
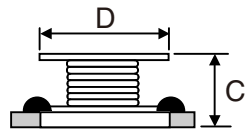
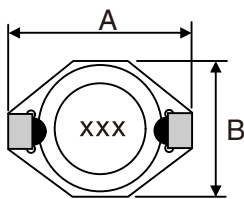
- MSP3308 - 1000 PCS/Reel
- MSP3316 - 1000 PCS/Reel
- MSP3340 - 250 PCS/Reel

General Specifications

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



► Shape and Dimensions (Unit:mm)



Type	A (max)	B (max)	C (max)	D (±0.3)	E (Ref)	F (Ref)	G (Ref)
MSP3308	12.95	9.40	3.00	8.38	2.54	7.62	2.54
MSP3316	12.95	9.40	5.21	8.38	2.54	7.62	2.54
MSP3340	12.95	9.40	11.43	8.38	2.54	7.62	2.54

► Electrical Characteristics For MSP3308 Series

Part Number	Inductance [μH]	DCR(max) [mΩ]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3308-100M	10 ±20%	110	35	2.4	2.0
MSP3308-150M	15 ±20%	150	33	2.0	1.5
MSP3308-220M	22 ±20%	230	25	1.6	1.3
MSP3308-330M	33 ±20%	300	19	1.4	1.1
MSP3308-470M	47 ±20%	390	14	1.0	0.8
MSP3308-680M	68 ±20%	660	12	0.9	0.7
MSP3308-101M	100 ±20%	840	10	0.7	0.6
MSP3308-151M	150 ±20%	1200	8	0.6	0.5
MSP3308-221M	220 ±20%	1900	6	0.5	0.4
MSP3308-331M	330 ±20%	2700	6	0.4	0.3
MSP3308-471M	470 ±20%	4000	4	0.3	0.2
MSP3308-681M	680 ±20%	5300	3	0.2	0.1
MSP3308-102M	1000 ±20%	8400	2.5	0.1	0.05

► Electrical Characteristics For MSP3316 Series

Part Number	Inductance [μ H]	DCR(max) [m Ω]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3316-1R0M	1.0 \pm 20%	9	100	9.0	6.8
MSP3316-1R5M	1.5 \pm 20%	10	90	8.0	6.4
MSP3316-2R2M	2.2 \pm 20%	12	80	7.0	6.1
MSP3316-3R3M	3.3 \pm 20%	15	65	6.4	5.4
MSP3316-4R7M	4.7 \pm 20%	18	45	5.4	4.8
MSP3316-6R8M	6.8 \pm 20%	27	38	4.6	4.4
MSP3316-100M	10 \pm 20%	38	30	3.8	3.9
MSP3316-150M	15 \pm 20%	46	27	3.0	3.1
MSP3316-220M	22 \pm 20%	85	19	2.6	2.7
MSP3316-330M	33 \pm 20%	100	15	2.0	2.1
MSP3316-470M	47 \pm 20%	140	12	1.6	1.8
MSP3316-680M	68 \pm 20%	200	10	1.4	1.5
MSP3316-101M	100 \pm 20%	280	9	1.2	1.3
MSP3316-151M	150 \pm 20%	400	6	1.0	1.0
MSP3316-221M	220 \pm 20%	610	5	0.8	0.8
MSP3316-331M	300 \pm 20%	1020	4.5	0.6	0.6
MSP3316-471M	470 \pm 20%	1270	3.5	0.5	0.5
MSP3316-681M	680 \pm 20%	2020	2.5	0.4	0.4
MSP3316-102M	1000 \pm 20%	3000	2.0	0.3	0.3

► Electrical Characteristics For MSP3340 Series

Part Number	Inductance [μ H]	DCR(max) [m Ω]	SRF(Typ) [MHz]	Isat (max) [A]	Irms (max) [A]
MSP3340-100M	10 \pm 20%	40	35	8.0	3.5
MSP3340-150M	15 \pm 20%	50	18	7.0	3.0
MSP3340-220M	22 \pm 20%	66	13	5.5	2.5
MSP3340-330M	33 \pm 20%	80	11	4.0	2.0
MSP3340-470M	47 \pm 20%	110	9.0	3.8	1.6
MSP3340-680M	68 \pm 20%	170	7.0	3.0	1.2
MSP3340-101M	100 \pm 20%	220	5.5	2.5	1.2
MSP3340-151M	150 \pm 20%	340	4.5	2.0	0.9
MSP3340-221M	220 \pm 20%	440	3.5	1.6	0.7
MSP3340-331M	330 \pm 20%	700	3.0	1.2	0.6
MSP3340-471M	470 \pm 20%	950	2.5	1.0	0.3
MSP3340-681M	680 \pm 20%	1200	2.0	1.0	0.2
MSP3340-102M	1000 \pm 20%	2000	1.5	0.8	0.1

- 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 10% from its value without current