

FEATURES

- Excellent solderability and high heat resistance.
- Surface mount inductor with high current rating.



APPLICATIONS

- Ideally used in Digital camera, LCD television set notebook PC, DC-DC Converter, etc.

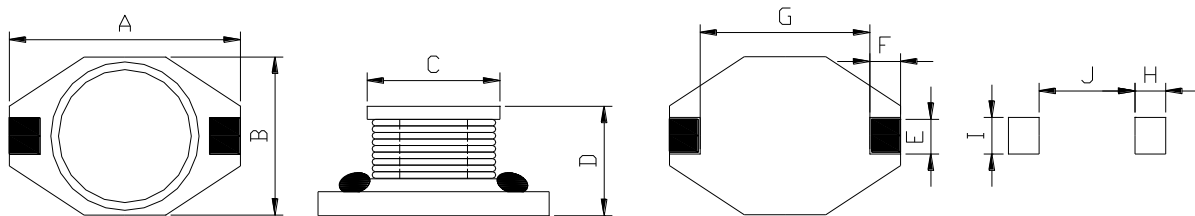
Product Identification

MGSP 3316 - 3R3 M : LF

① ② ③ ④ ⑤

- ① Series Name
- ② Product Dimensions
- ③ Inductance Value: (3R3:3.3uH 100: 10uH; 101:100uH)
- ④ Inductance Tolerance: (K:10% ; M:20% ; N:30%)
- ⑤ Lead Free Products

Shapes and Dimensions



Series	Dimensions(mm)									
	A(max)	B(max)	C	D(max)	E	F	G	H	I	J
MGSP3308	13	9.5	8.38	3.0	2.54	2.54	7.6	3.0	2.8	7.4
MGSP3316	13	9.5	8.38	5.3	2.54	2.54	7.6	3.0	2.8	7.4
MGSP3340	13	9.5	8.38	11.5	2.54	2.54	7.6	3.0	2.8	7.4

Electrical Characteristics

MGSP3308 Series

Part Number	L±20% (μ H)	DCR max. (Ω)	SRF type (MHz)	Isat (A)	Irms (A)
MGSP3308-4R7M-LF	4.7	0.04	50	4.20	3.2
MGSP3308-6R8M-LF	6.8	0.06	47	3.90	2.6
MGSP3308-100M-LF	10	0.09	37	2.70	2.3
MGSP3308-150M-LF	15	0.12	35	2.30	1.9
MGSP3308-220M-LF	22	0.18	26	1.80	1.5
MGSP3308-330M-LF	33	0.25	19	1.60	1.2
MGSP3308-470M-LF	47	0.32	14	1.30	1.0
MGSP3308-680M-LF	68	0.54	12	1.10	0.9
MGSP3308-101M-LF	100	0.69	11	0.87	0.73
MGSP3308-151M-LF	150	0.94	9.0	0.74	0.62
MGSP3308-221M-LF	220	1.60	6.0	0.56	0.51
MGSP3308-331M-LF	330	2.15	5.5	0.500	0.40

MGSP3316 Series

Part Number	L±20% (μ H)	DCR max. (Ω)	SRF type (MHz)	Isat (A)	Irms (A)
MGSP3316-1R0M-LF	1.0	0.009	100	9.0	6.8
MGSP3316-2R2M-LF	2.2	0.012	80	7.0	6.1
MGSP3316-3R3M-LF	3.3	0.015	65	6.4	5.4
MGSP3316-4R7M-LF	4.7	0.018	45	5.4	4.8
MGSP3316-6R8M-LF	6.8	0.03	38	4.6	4.4
MGSP3316-100M-LF	10	0.04	30	3.8	3.9
MGSP3316-150M-LF	15	0.05	27	3.0	3.1
MGSP3316-220M-LF	22	0.09	19	2.3	2.7
MGSP3316-330M-LF	33	0.10	15	2.0	2.1
MGSP3316-470M-LF	47	0.14	12	1.6	1.8
MGSP3316-680M-LF	68	0.20	10	1.4	1.5
MGSP3316-101M-LF	100	0.28	9	1.2	1.3
MGSP3316-151M-LF	150	0.40	6.0	1.0	1.0
MGSP3316-221M-LF	220	0.61	5.0	0.8	0.8
MGSP3316-331M-LF	330	1.02	4.5	0.6	0.6

1. tested at 100 kHz, 0.1 Vrms, 0 Adc.

2. Isat: DC current at which the inductance drops 10% from its value without current

3. I rms: Current that causes a 40°C temperature rise from 25°C ambient.

MGSP3340 Series

Part Number	L±20% (uH)	DCR max. (Ω)	SRF type (MHz)	Isat (A)	Irms (A)
MGSP3340-100M-LF	10	0.04	35	8.0	3.5
MGSP3340-150M-LF	15	0.05	18	7.0	3.0
MGSP3340-220M-LF	22	0.70	13	5.5	2.5
MGSP3340-330M-LF	33	0.80	11	4.0	2.0
MGSP3340-470M-LF	47	0.11	9	3.8	1.6
MGSP3340-680M-LF	68	0.17	7	3.0	1.2
MGSP3340-101M-LF	100	0.22	6	2.5	1.2
MGSP3340-151M-LF	150	0.34	4.5	2.0	0.9
MGSP3340-221M-LF	220	0.44	3.5	1.6	0.7
MGSP3340-331M-LF	330	0.70	3.0	1.2	0.6
MGSP3340-471M-LF	470	0.95	2.5	1.0	0.3
MGSP3340-681M-LF	680	1.15	2.0	1.0	0.2
MGSP3340-102M-LF	1000	2.00	1.5	0.8	0.1

1. tested at 100 kHz, 0.1 Vrms, 0 Adc.

2. Isat: DC current at which the inductance drops 10% from its value without current

3. Irms: Current that causes a 40°C temperature rise from 25°C ambient.