

FEATURES

- Excellent solderability and high heat resistance.
- Low cost and packed in embossed carrier tape.
- Magnetically shielded construction.



APPLICATIONS

- Ideally used in Mobilephone,PDA,MP3,MDSC/DVC,Portable DVD, etc as DC-DC Converter.

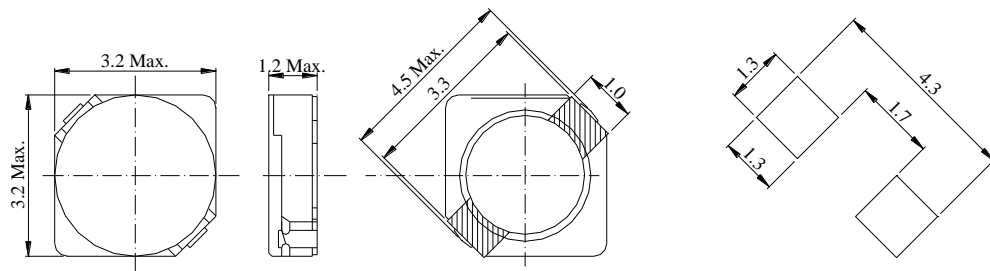
Product Identification

MGSFD 4D28 - 100 N : LF

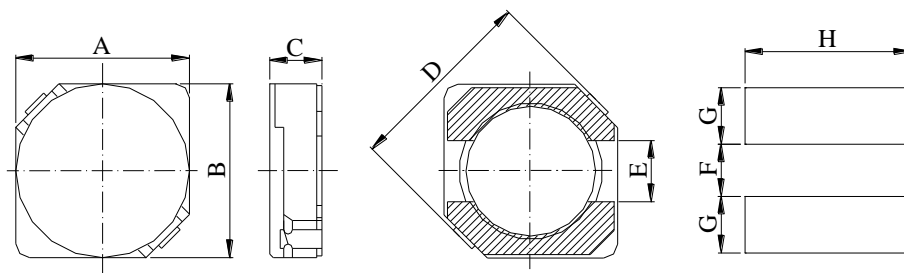
① ② ③ ④ ⑤

- ① **Series Name**
- ② **Product Dimensions:** (4.8*4.8*2.8 mm)
- ③ **Inductance Value:** (3R3:3.3uH 100: 10uH; 101:100uH)
- ④ **Inductance Tolerance:** (M:20% ; N:30%)
- ⑤ **Lead Free Products**

Shapes and Dimensions



Series	MGSFD2D11 \ MGSFD2D11HP Series
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Series	Dimensions(mm)							
	A Max.	B Max.	C Max.	D Max.	E	F	G	H
MGSFD4D18	5.0	5.0	2.0	6.9	1.5	1.5	1.9	5.3
MGSFD4D28	5.0	5.0	3.0	6.9	1.5	1.5	1.9	5.3
MGSFD5D18	6.0	6.0	2.0	8.2	2.0	2.0	2.15	6.3
MGSFD5D28	6.0	6.0	3.0	8.2	2.0	2.0	2.15	6.3
MGSFD6D28	7.0	7.0	3.0	9.5	2.0	2.0	2.65	7.3

Electrical Characteristics

MGSFD2D11 Series

Part Number	L±30% (uH)	DCR max. (Ohms)	Isat (A)	Irms (A)
MGSFD2D11-1R5N-LF	1.5	0.068	0.90	1.48
MGSFD2D11-2R2N-LF	2.2	0.098	0.78	1.27
MGSFD2D11-3R3N-LF	3.3	0.123	0.60	1.02
MGSFD2D11-4R7N-LF	4.7	0.170	0.50	0.88
MGSFD2D11-6R8N-LF	6.8	0.260	0.44	0.80
MGSFD2D11-100N-LF	10.0	0.400	0.35	0.65

MGSFD2D11HP Series

Part Number	L±30% (uH)	DCR max. (Ohms)	Isat (A)	Irms (A)
MGSFD2D11HP-1R5N-LF	1.5	0.080	1.35	1.60
MGSFD2D11HP-2R2N-LF	2.2	0.120	1.10	1.30
MGSFD2D11HP-3R3N-LF	3.3	0.173	0.90	0.90
MGSFD2D11HP-4R7N-LF	4.7	0.238	0.75	0.85
MGSFD2D11HP-6R8N-LF	6.8	0.371	0.63	0.65
MGSFD2D11HP-100N-LF	10.0	0.559	0.52	0.52

1. Test freq. at 100KHz.
2. Isat: DC current at which the inductance drops 35% from its value without current
3. Irms: Current that causes a 40°C temperature rise from 25°C ambient.

MGSFD4D18 Series

Part Number	L±30% (uH)	DCR max. (Ohms)	Rated Current (A)
MGSFD4D18-1R0N-LF	1.0	0.045	1.72
MGSFD4D18-2R2N-LF	2.2	0.075	1.32
MGSFD4D18-3R3N-LF	3.3	0.110	1.04
MGSFD4D18-4R7N-LF	4.7	0.162	0.84
MGSFD4D18-8R2N-LF	8.2	0.245	0.68
MGSFD4D18-100N-LF	10.0	0.200	0.61
MGSFD4D18-120N-LF	12.0	0.210	0.56
MGSFD4D18-150N-LF	15.0	0.240	0.50
MGSFD4D18-180N-LF	18.0	0.338	0.48
MGSFD4D18-220N-LF	22.0	0.397	0.41
MGSFD4D18-270N-LF	27.0	0.441	0.35
MGSFD4D18-330N-LF	33.0	0.694	0.32
MGSFD4D18-470N-LF	47.0	0.922	0.28
MGSFD4D18-680N-LF	68.0	1.300	0.24
MGSFD4D18-820N-LF	82.0	1.560	0.22
MGSFD4D18-101N-LF	100.0	1.730	0.20

MGSFD4D28 Series

Part Number	L±30% (uH)	DCR max. (Ohms)	Rated Current (A)
MGSFD4D28-1R2N-LF	1.2	0.024	2.56
MGSFD4D28-2R2N-LF	2.2	0.032	2.04
MGSFD4D28-3R3N-LF	3.3	0.050	1.57
MGSFD4D28-4R7N-LF	4.7	0.072	1.32
MGSFD4D28-6R8N-LF	6.8	0.109	1.12
MGSFD4D28-100N-LF	10.0	0.128	1.00
MGSFD4D28-150N-LF	15.0	0.149	0.76
MGSFD4D28-180N-LF	18.0	0.166	0.72
MGSFD4D28-220N-LF	22.0	0.235	0.70
MGSFD4D28-270N-LF	27.0	0.261	0.58
MGSFD4D28-330N-LF	33.0	0.331	0.56
MGSFD4D28-390N-LF	39.0	0.384	0.50
MGSFD4D28-470N-LF	47.0	0.587	0.48
MGSFD4D28-560N-LF	56.0	0.625	0.41
MGSFD4D28-680N-LF	68.0	0.699	0.35
MGSFD4D28-820N-LF	82.0	0.915	0.32
MGSFD4D28-101N-LF	100.0	1.020	0.29

MGSFD5D18 Series

Part Number	L±30% (uH)	DCR max. (Ohms)	Rated Current (A)
MGSFD5D18-4R1N-LF	4.1	0.057	1.95
MGSFD5D18-5R4N-LF	5.4	0.076	1.60
MGSFD5D18-6R2N-LF	6.2	0.096	1.40
MGSFD5D18-8R9N-LF	8.9	0.116	1.25
MGSFD5D18-100N-LF	10.0	0.124	1.20
MGSFD5D18-120N-LF	12.0	0.153	1.10
MGSFD5D18-150N-LF	15.0	0.196	0.97
MGSFD5D18-180N-LF	18.0	0.210	0.85
MGSFD5D18-220N-LF	22.0	0.290	0.80
MGSFD5D18-270N-LF	27.0	0.330	0.75
MGSFD5D18-330N-LF	33.0	0.385	0.65
MGSFD5D18-390N-LF	39.0	0.520	0.57
MGSFD5D18-470N-LF	47.0	0.595	0.54
MGSFD5D18-560N-LF	56.0	0.665	0.50
MGSFD5D18-680N-LF	68.0	0.840	0.43
MGSFD5D18-820N-LF	82.0	0.978	0.41
MGSFD5D18-101N-LF	100.0	1.200	0.36

1. Test freq. at 100KHz.

2. Rated current: It is either the inductance is 35% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$, whichever is lower.

MGSFD5D28 Series

Part Number	L \pm 30% (μ H)	DCR max. (Ohms)	Rated Current (A)
MGSFD5D28-2R5N-LF	2.5	0.018	2.60
MGSFD5D28-3R0N-LF	3.0	0.024	2.40
MGSFD5D28-4R2N-LF	4.2	0.031	2.20
MGSFD5D28-5R3N-LF	5.3	0.038	1.90
MGSFD5D28-6R2N-LF	6.2	0.045	1.80
MGSFD5D28-8R2N-LF	8.2	0.053	1.60
MGSFD5D28-100N-LF	10.0	0.065	1.30
MGSFD5D28-120N-LF	12.0	0.076	1.20
MGSFD5D28-150N-LF	15.0	0.103	1.10
MGSFD5D28-180N-LF	18.0	0.110	1.00
MGSFD5D28-220N-LF	22.0	0.122	0.90
MGSFD5D28-270N-LF	27.0	0.175	0.85
MGSFD5D28-330N-LF	33.0	0.189	0.75
MGSFD5D28-390N-LF	39.0	0.212	0.70
MGSFD5D28-470N-LF	47.0	0.250	0.62
MGSFD5D28-560N-LF	56.0	0.305	0.58
MGSFD5D28-680N-LF	68.0	0.355	0.52
MGSFD5D28-820N-LF	82.0	0.463	0.46
MGSFD5D28-101N-LF	100.0	0.520	0.42

MGSFD6D28 Series

Part Number	L \pm 30% (μ H)	DCR max. (Ohms)	Rated Current (A)
MGSFD6D28-3R0N-LF	3.0	0.024	3.00
MGSFD6D28-5R0N-LF	5.0	0.031	2.40
MGSFD6D28-6R0N-LF	6.0	0.035	2.25
MGSFD6D28-8R6N-LF	8.6	0.058	1.85
MGSFD6D28-100N-LF	10.0	0.065	1.70
MGSFD6D28-150N-LF	15.0	0.084	1.40
MGSFD6D28-180N-LF	18.0	0.095	1.32
MGSFD6D28-220N-LF	22.0	0.128	1.20
MGSFD6D28-330N-LF	33.0	0.165	0.97
MGSFD6D28-470N-LF	47.0	0.238	0.80
MGSFD6D28-560N-LF	56.0	0.277	0.73
MGSFD6D28-680N-LF	68.0	0.304	0.65
MGSFD6D28-820N-LF	82.0	0.390	0.60
MGSFD6D28-101N-LF	100.0	0.535	0.54

1. Test freq. at 100KHz.

2. Rated current: It is either the inductance is 35% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$, whichever is lower.