

GS Series Surface Mount Power Inductors



- Flat top is ideal for pick and place
- High saturation current
- Ideal for DC/DC and SMPS applications
- Custom values available
- Shielded designs available



ELECTRICAL SPECIFICATIONS GS 43

Part Number	Inductance (uH min.)	Test Freq. (MHz)	RDC (Ohms)	IDC (Amps)
GS43-1R0	1.00	7.96 MHz	0.033	3.80
GS43-1R4	1.40	7.96 MHz	0.038	3.30
GS43-1R8	1.80	7.96 MHz	0.042	2.91
GS43-2R2	2.20	7.96 MHz	0.047	2.60
GS43-2R7	2.70	7.96 MHz	0.052	2.43
GS43-3R3	3.30	7.96 MHz	0.058	2.15
GS43-3R9	3.90	7.96 MHz	0.076	1.98
GS43-4R7	4.70	7.96 MHz	0.094	1.70
GS43-5R6	5.60	7.96 MHz	0.101	1.60
GS43-6R8	6.80	7.96 MHz	0.117	1.41
GS43-8R2	8.20	7.96 MHz	0.132	1.26
GS43-100	10.00	2.52 MHz	0.182	1.15
GS43-120	12.00	2.52 MHz	0.210	1.05
GS43-150	15.00	2.52 MHz	0.235	0.92
GS43-180	18.00	2.52 MHz	0.338	0.84
GS43-220	22.00	2.52 MHz	0.378	0.76
GS43-270	27.00	2.52 MHz	0.522	0.71
GS43-330	33.00	2.52 MHz	0.540	0.64
GS43-390	39.00	2.52 MHz	0.587	0.59
GS43-470	47.00	2.52 MHz	0.844	0.54
GS43-560	56.00	2.52 MHz	0.937	0.50
GS43-680	68.00	2.52 MHz	1.117	0.46

PART INFORMATION

GS XXX XXX X X
1 2 3 4 5

1. **GS:** Surface Mount Power Inductor
2. **Size:** 43/54/75/105
3. **Inductance:**
4. **Packaging:** R-Tape and Reel B-Bulk
5. **Tolerance:** J 5%, K 10%, L 15%, M 20%, N 30%

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ELECTRICAL SPECIFICATIONS GS 54				
Part Number	Inductance (uH min.)	Test Freq. (MHz)	RDC (Ohms)	IDC (Amps)
GS54-100	10	2.52 MHz	0.10	1.44
GS54-120	12	2.52 MHz	0.12	1.40
GS54-150	15	2.52 MHz	0.14	1.30
GS54-180	18	2.52 MHz	0.15	1.23
GS54-220	22	2.52 MHz	0.18	1.11
GS54-270	27	2.52 MHz	0.20	0.97
GS54-330	33	2.52 MHz	0.23	0.88
GS54-390	39	2.52 MHz	0.32	0.80
GS54-470	47	2.52 MHz	0.37	0.72
GS54-560	56	2.52 MHz	0.42	0.68
GS54-680	68	2.52 MHz	0.46	0.61
GS54-820	82	2.52 MHz	0.60	0.58
GS54-101	100	1.00 KHz	0.70	0.52
GS54-121	120	1.00 KHz	0.93	0.48
GS54-151	150	1.00 KHz	1.10	0.40
GS54-181	180	1.00 KHz	1.38	0.38
GS54-221	220	1.00 KHz	1.57	0.35

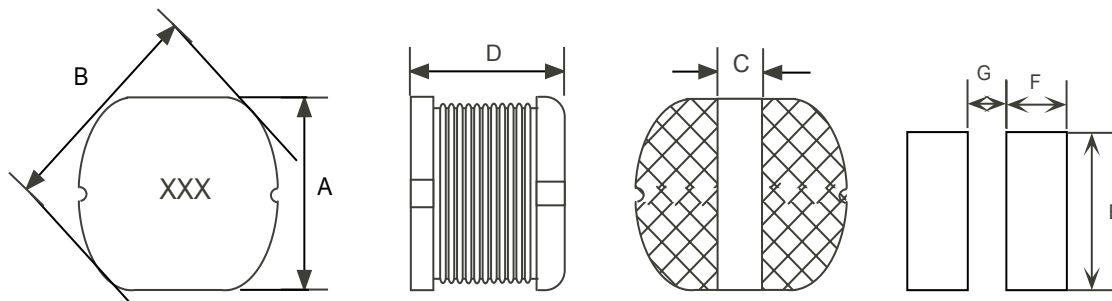
ELECTRICAL SPECIFICATIONS GS 75				
Part Number	Inductance (uH min.)	Test Freq. (MHz)	RDC (Ohms)	IDC (Amps)
GS75-100	10	2.52 MHz	0.070	2.30
GS75-120	12	2.52 MHz	0.080	2.00
GS75-150	15	2.52 MHz	0.090	1.80
GS75-180	18	2.52 MHz	0.100	1.60
GS75-220	22	2.52 MHz	0.110	1.50
GS75-270	27	2.52 MHz	0.120	1.30
GS75-330	33	2.52 MHz	0.130	1.20
GS75-390	39	2.52 MHz	0.160	1.10
GS75-470	47	2.52 MHz	0.180	1.10
GS75-560	56	2.52 MHz	0.240	0.94
GS75-680	68	2.52 MHz	0.280	0.85
GS75-820	82	2.52 MHz	0.370	0.78
GS75-101	100	1.00 KHz	0.430	0.72
GS75-121	120	1.00 KHz	0.470	0.66
GS75-151	150	1.00 KHz	0.640	0.58
GS75-181	180	1.00 KHz	0.710	0.51
GS75-221	220	1.00 KHz	0.960	0.49
GS75-271	270	1.00 KHz	1.110	0.42
GS75-331	330	1.00 KHz	1.260	0.40
GS75-391	390	1.00 KHz	1.770	0.36
GS75-471	470	1.00 KHz	1.960	0.34

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ELECTRICAL SPECIFICATIONS GS 105

Part Number	Inductance (uH min.)	Test Freq. (MHz)	RDC (Ohms)	IDC (Amps)
GS105-100	10	2.52 MHz	0.060	2.60
GS105-120	12	2.52 MHz	0.070	2.45
GS105-150	15	2.52 MHz	0.080	2.27
GS105-180	18	2.52 MHz	0.090	2.15
GS105-220	22	2.52 MHz	0.100	1.95
GS105-270	27	2.52 MHz	0.110	1.76
GS105-330	33	2.52 MHz	0.120	1.50
GS105-390	39	2.52 MHz	0.140	1.37
GS105-470	47	2.52 MHz	0.170	1.28
GS105-560	56	2.52 MHz	0.190	1.17
GS105-680	68	2.52 MHz	0.220	1.11
GS105-820	82	2.52 MHz	0.250	1.00
GS105-101	100	1.00 KHz	0.350	0.97
GS105-121	120	1.00 KHz	0.400	0.89
GS105-151	150	1.00 KHz	0.470	0.78
GS105-181	180	1.00 KHz	0.630	0.72
GS105-221	220	1.00 KHz	0.730	0.66
GS105-271	270	1.00 KHz	0.970	0.57
GS105-331	330	1.00 KHz	1.150	0.52
GS105-391	390	1.00 KHz	1.300	0.48
GS105-471	470	1.00 KHz	1.480	0.42
GS105-561	560	1.00 KHz	1.900	0.33
GS105-681	680	1.00 KHz	2.250	0.28
GS105-821	820	1.00 KHz	2.550	0.24

Mechanical



DIMENSIONS

TYPE	A	B	C	D	E	F	G
GS43	4.0 +/- 0.3	4.5 +/- 0.3	1.5 Typ	3.2 +/- 0.3	4.5	2.10	0.8
GS54	5.2 +/- 0.3	5.8 +/- 0.3	2.0 Typ	4.5 +/- 0.3	5.5	2.25	1.5
GS75	7.0 +/- 0.3	7.8 +/- 0.3	2.5 Typ	5.0 +/- 0.3	7.5	3.05	1.9
GS105	9.0 +/- 0.3	10.0 +/- 0.3	2.9 Typ	5.4 +/- 0.3	9.5	3.65	3.5

measurements in mm