

**MINIATURE SQUARE SHIELDED
SMD POWER INDUCTORS
SERIES MSQ**

FEATURES

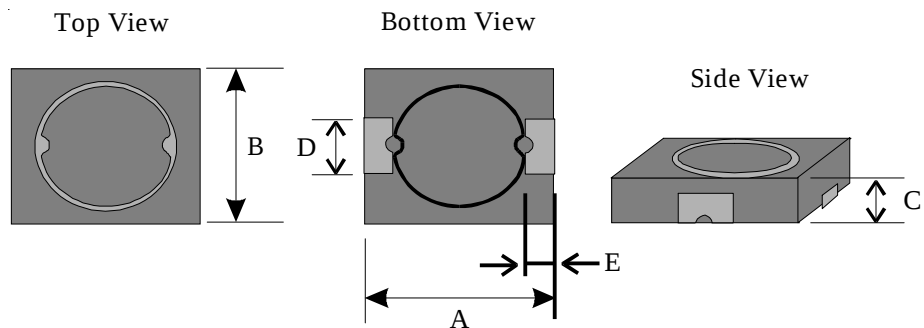
- Miniature size. Square core. 100% ferrite shielded. Very high current handling capacity.
- Excellent solderability. High heat resistance. Low price

ELECTRICAL SPECIFICATIONS

- Inductance range Series MSQ703 from 1.20 μ H to 100 μ H
 Series MSQ1006 from 0.56 μ H to 5.6 μ H
 Series MSQ1040 from 1.50 μ H to 330 μ H
- Test frequency 1 KHz with test voltage level 0.25 Volts
- Test equipment Quadtech 1750 LCR Meter
- Rated current range Series MSQ703 from 0.30 A to 2.73 A
 Series MSQ1006 from 7.00 A to 18.0 A
 Series MSQ1040 from 0.70 A to 10.0 A
- Rated current Obtained when Lo drops 35% typical

PHYSICAL SPECIFICATIONS

- Operating temperature - 25 °C to +105 °C
- Construction Surface Mount, Ferrite sleeve
- Shielding 100% ferrite
- Terminal Tinned copper wire
- Packaging T & R MSQ703 size 1,000 pieces per reel
 MSQ1006 size 500 pieces per reel
 MSQ1040 size 900 pieces per reel
- Tape & reel spec. Tape 24 mm embossed carrier with plastic reel

DIMENSIONS IN MILLIMETERS

SERIES	A (± 0.4 mm)	B (± 0.3 mm)	C maximum	D nominal	E nominal
MSQ703	7.30	7.30	3.30	1.8	0.6
MSQ1006	10.2	10.0	6.70	3.0	1.0
MSQ1040	10.2	10.0	4.00	3.0	1.0

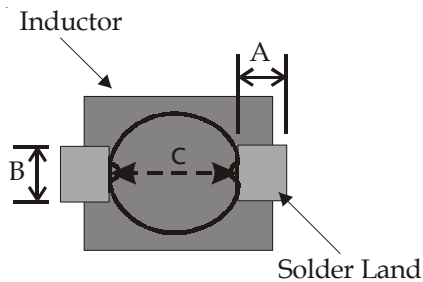
SERIES MSQ703

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (A)
MSQ703-1R2M	1.2	20	0.02	2.73
MSQ703-1R8M	1.8	20	0.02	2.26
MSQ703-2R4M	2.4	20	0.03	1.91
MSQ703-3R3M	3.3	20	0.03	1.68
MSQ703-4R7M	4.7	20	0.04	1.28
MSQ703-6R8M	6.8	20	0.05	1.06
MSQ703-100M	10	20	0.08	1.04
MSQ703-120M	12	20	0.10	0.84
MSQ703-150M	15	20	0.11	0.77
MSQ703-180M	18	20	0.13	0.67
MSQ703-220M	22	20	0.18	0.62
MSQ703-270M	27	20	0.20	0.57
MSQ703-330M	33	20	0.26	0.51
MSQ703-390M	39	20	0.30	0.46
MSQ703-470M	47	20	0.41	0.45
MSQ703-560M	56	20	0.43	0.37
MSQ703-680M	68	20	0.50	0.35
MSQ703-820M	82	20	0.72	0.32
MSQ703-101M	100	20	0.78	0.30

SERIES MSQ1040

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (A)
MSQ1040-1R5N	1.5	30	0.0081	10.0
MSQ1040-2R5N	2.5	30	0.0105	7.50
MSQ1040-3R8N	3.8	30	0.0130	6.00
MSQ1040-5R2N	5.2	30	0.0220	5.50
MSQ1040-7R0N	7.0	30	0.0270	4.80
MSQ1040-100N	10	30	0.0350	4.40
MSQ1040-150N	15	30	0.0500	3.60
MSQ1040-220N	22	30	0.0730	2.90
MSQ1040-330N	33	30	0.0930	2.30
MSQ1040-470N	47	30	0.1280	2.10
MSQ1040-680N	68	30	0.2130	1.50
MSQ1040-101N	100	30	0.3040	1.35
MSQ1040-151N	150	30	0.5060	1.15
MSQ1040-221N	220	30	0.7560	0.92
MSQ1040-331N	330	30	1.0900	0.70

LAND PATTERN



Series	A	B	C
MSQ703	1.60 mm	2.50 mm	5.00 mm
MSQ1006	1.90 mm	3.20 mm	7.00 mm
MSQ1040	1.80 mm	3.20 mm	7.00 mm

SERIES MSQ1006

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (A)
MSQ1006-R56N	0.56	30	0.0028	18
MSQ1006-1R0N	1.00	30	0.0038	14
MSQ1006-1R6M	1.60	20	0.0066	11
MSQ1006-2R4M	2.40	20	0.0077	10
MSQ1006-3R3M	3.30	20	0.0090	8.7
MSQ1006-4R3M	4.30	20	0.0110	7.5
MSQ1006-5R6M	5.60	20	0.0120	6.9