

Shielded Power Inductors MSS6132T



- 6.1 × 6.1 mm footprint; 3.2 mm high shielded inductors
- Low DCR and excellent current handling
- AEC-Q200 Grade 1 qualified

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 0.33 – 0.38 g

Ambient temperature –40°C to +125°C with Irms (40°C) current

Maximum part temperature +165°C (ambient + temp rise)

Storage temperature Component: –40°C to +165°C.

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 500/7" reel, 1500/13" reel; Plastic tape: 16 mm wide, 0.3 mm thick, 12 mm pocket spacing, 3.1 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±20% (µH)	DCR max (Ohms)	SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
MSS6132T-472ML_	4.7	0.043	65.0	2.18	2.60	2.84	2.30	3.10
MSS6132T-562ML_	5.6	0.048	60.0	2.10	2.50	2.74	2.20	2.95
MSS6132T-682ML_	6.8	0.052	47.0	1.80	2.12	2.30	2.10	2.80
MSS6132T-822ML_	8.2	0.055	45.0	1.78	2.06	2.22	2.00	2.65
MSS6132T-103ML_	10	0.070	39.0	1.36	1.64	1.84	1.90	2.50
MSS6132T-123ML_	12	0.079	33.0	1.30	1.54	1.70	1.75	2.35
MSS6132T-153ML_	15	0.106	27.0	1.16	1.42	1.56	1.65	2.20
MSS6132T-183ML_	18	0.118	24.0	1.04	1.22	1.36	1.55	2.05
MSS6132T-223ML_	22	0.158	21.0	0.97	1.12	1.22	1.45	1.90
MSS6132T-273ML_	27	0.180	19.0	0.91	1.08	1.18	1.30	1.75
MSS6132T-333ML_	33	0.250	18.0	0.81	0.96	1.10	1.20	1.60
MSS6132T-393ML_	39	0.275	17.0	0.79	0.92	0.99	1.10	1.45
MSS6132T-473ML_	47	0.300	16.0	0.72	0.86	0.93	0.95	1.30
MSS6132T-563ML_	56	0.380	14.0	0.61	0.72	0.79	0.85	1.15
MSS6132T-683ML_	68	0.410	12.0	0.55	0.63	0.69	0.73	1.00
MSS6132T-823ML_	82	0.510	10.0	0.53	0.62	0.67	0.60	0.85
MSS6132T-104ML_	100	0.660	9.0	0.45	0.54	0.59	0.50	0.69

1. Please specify **termination** and **packaging** codes:

MSS6132T-823MLC

Termination: L = RoHS compliant matte tin over nickel over phos bronze

Special order:

T = RoHS tin-silver-copper

(95.5/4/0.5) over gold over nickel

over phos bronze or

S = non-RoHS tin-lead (63/37) over

gold over nickel over phos bronze.

Packaging: C = 7" machine-ready reel EIA-481 embossed plastic tape (500 per full reel).

B = Less than full reel In tape, but not machine-ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel EIA-481 embossed plastic tape. Factory order only, not stocked (1500 per reel per full reel).

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at which the inductance drops the specified amount from its value without current.
- Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com

UK +44-1236-730595 sales@coilcraft-europe.com

Taiwan +886-2-2264 3646 sales@coilcraft.com.tw

China +86-21-6218 8074 sales@coilcraft.com.cn

Singapore + 65-6484 8412 sales@coilcraft.com.sg

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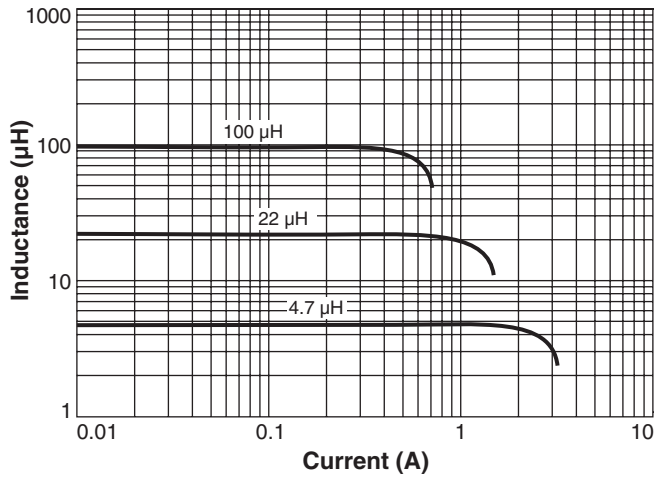
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

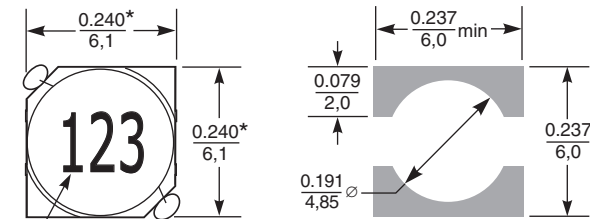
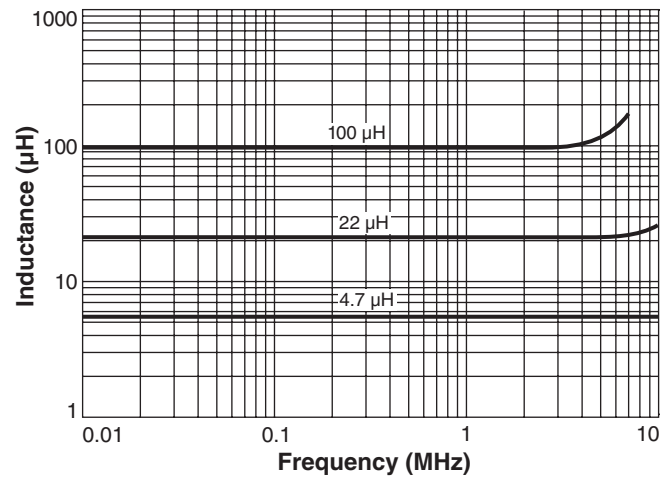
NEW!

SMT Power Inductors – MSS6132T

Typical L vs Current

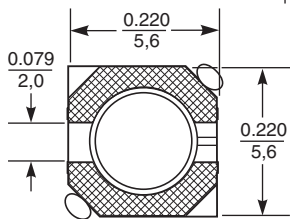
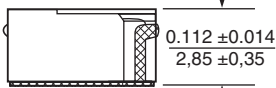


Typical L vs Frequency



Dash number

Recommended Land Pattern



*Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.016 in / 0.4 mm.

Dimensions are in $\frac{\text{inches}}{\text{mm}}$

