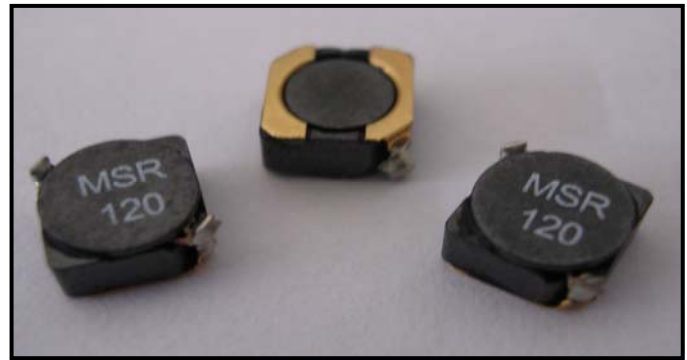




**MSR  
Electronics**



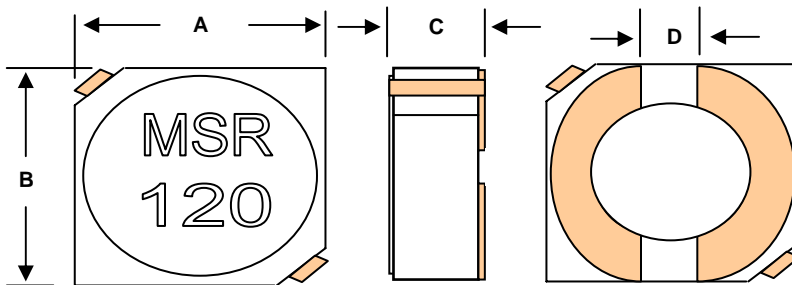
## SHIELDED SMD POWER INDUCTORS

**RoHS**



Compliant: Contact  
Factory for Copy of  
Test Report

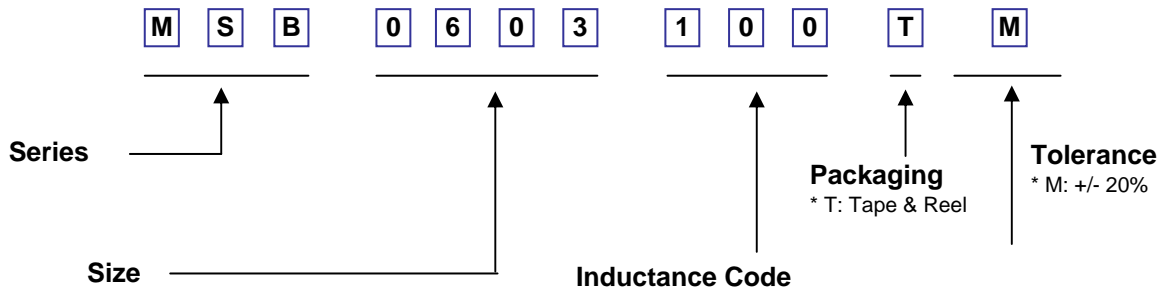
### MSB SERIES (Shielded)



#### FEATURES:

- Solder Heat Resistance: 260 \*C @ 30 seconds
- Dimensions (mm)
- High Current Capability
- Temp Rise = 40 \*C @ Irms
- L drops 10% @ Isat
- Operating Temp = -25 to +85 \*C
- Spec Ratings are at 25 \*C

#### PART NUMBER SYSTEM



Part Number	Inductance L(uH) 10 KHz @ 0.10V	DCR (Ohms) MAX	I rms ( Amps)	Dimensions (mm)			
				A +/- 0.5	B +/- 0.5	C MAX	D REF
MSB0603-3R0TM	3.0	0.024	3.00	6.6	6.6	3.0	2.2
MSB0603-3R9TM	3.9	0.027	2.60	6.6	6.6	3.0	2.2
MSB0603-5R0TM	5.0	0.031	2.40	6.6	6.6	3.0	2.2
MSB0603-6R0TM	6.0	0.035	2.26	6.6	6.6	3.0	2.2
MSB0603-7R3TM	7.3	0.054	2.10	6.6	6.6	3.0	2.2
MSB0603-8R6TM	8.6	0.058	1.85	6.6	6.6	3.0	2.2
MSB0603-100TM	10	0.065	1.70	6.6	6.6	3.0	2.2
MSB0603-120TM	12	0.070	1.55	6.6	6.6	3.0	2.2
MSB0603-150TM	15	0.084	1.40	6.6	6.6	3.0	2.2
MSB0603-180TM	18	0.095	1.32	6.6	6.6	3.0	2.2
MSB0603-220TM	22	0.128	1.20	6.6	6.6	3.0	2.2
MSB0603-270TM	27	0.142	1.05	6.6	6.6	3.0	2.2
MSB0603-330TM	33	0.165	0.97	6.6	6.6	3.0	2.2

Part Number	Inductance L(uH) 10 KHz @ 0.10V	DCR (Ohms) MAX	I rms ( Amps)	Dimensions (mm)			
				A +/- 0.5	B +/- 0.5	C MAX	D REF
MSB0603-390TM	39	0.210	0.86	6.6	6.6	3.0	2.2
MSB0603-470TM	47	0.238	0.80	6.6	6.6	3.0	2.2
MSB0603-560TM	56	0.277	0.73	6.6	6.6	3.0	2.2
MSB0603-680TM	68	0.304	0.65	6.6	6.6	3.0	2.2
MSB0603-820TM	82	0.390	0.60	6.6	6.6	3.0	2.2
MSB0603-101TM	100	0.535	0.55	6.6	6.6	3.0	2.2

## GENERAL PARAMETERS: Layout, Schematic, Packaging

### Solder Pad Layout

