

**SURFACE MOUNT SHIELDED  
POWER INDUCTOR SERIES SHS703**

**FEATURES**

- 100% ferrite shielding, zero cross talk
- High current handling capacity
- Available in bulk or tape and reel
- RoHS compliant

**ELECTRICAL SPECIFICATIONS**

- Inductance range      10uH to 1000uH
- Test frequency        1.0 KHz with test level 0.25 V
- Test equipment        Quadtech 1910 L analyzer
- Rated current range   0.16 to 1.68 Amps
- Tolerance              K 10%, L 15%, M 20% & N 30%
- Rated current         Based on L drops 10% typ.

**PHYSICAL SPECIFICATIONS**

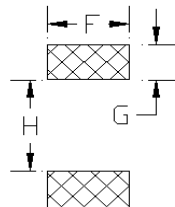
- Operating temp.       -40°C to + 85°C
- Construction         Wound ferrite bobbin covered with ferrite sleeve
- Terminal              Flat tinned copper wire
- Packaging             Bulk 100 pieces per bag  
                                  T & R 1500 pieces per reel
- Tape & reel spec.     16 mm embossed carrier tape  
                                  330 mm paper or plastic reel

**DIMENSIONS IN MILLIMETERS**

- Length A              7.5 max.
- Width B               7.5 max.
- Height C              3.4 max.
- Terminal length D    2.7 ± 0.2
- Terminal pitch E     5.1 ± 0.2

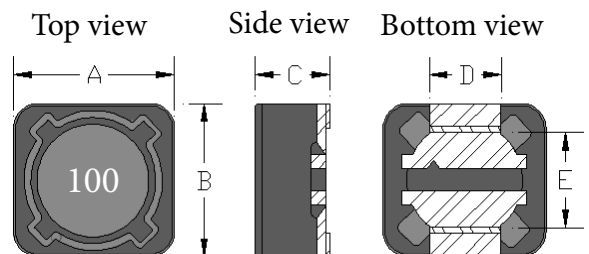
**SUGGESTED LAND PATTERN**

- F = 3.1 mm ref.
- G = 1.6 mm ref.
- H = 4.8 mm ref.



**SPECIFICATIONS**

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current max (mA)
SHS703-100M	10	20	0.072	1680
SHS703-120M	12	20	0.098	1520
SHS703-150M	15	20	0.13	1330
SHS703-180M	18	20	0.14	1200
SHS703-220M	22	20	0.19	1070
SHS703-270M	27	20	0.21	960
SHS703-330M	33	20	0.24	910
SHS703-390M	39	20	0.32	770
SHS703-470M	47	20	0.36	760
SHS703-560M	56	20	0.47	680
SHS703-680M	68	20	0.52	610
SHS703-820M	82	20	0.69	570
SHS703-101M	100	20	0.79	500
SHS703-121M	120	20	0.89	490
SHS703-151M	150	20	1.27	430
SHS703-181M	180	20	1.45	390
SHS703-221M	220	20	1.65	350
SHS703-271M	270	20	2.31	320
SHS703-331M	330	20	2.62	280
SHS703-391M	390	20	2.94	260
SHS703-471M	470	20	4.18	240
SHS703-561M	560	20	4.67	220
SHS703-681M	680	20	5.73	190
SHS703-821M	820	20	6.54	180
SHS703-102M	1000	20	9.44	160



**Notes:**

All test data based on 25°C ambient  
 Part temperature (ambient + temperature rise) must not exceed 85°C under worst case operating conditions.  
 Circuit design, components, PCB trace size, airflow and other cooling provisions all effect the part temperature.