

**HIGH POWER SHIELDED SMD
INDUCTORS
SERIES SPT**

FEATURES

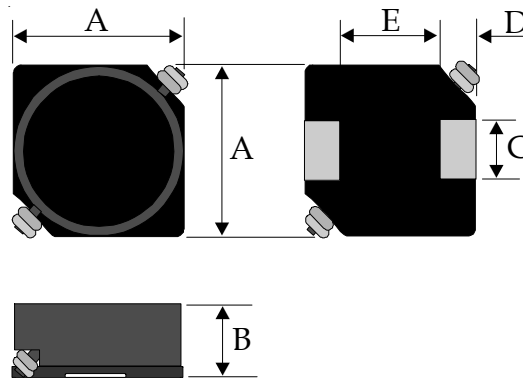
- 100% ferrite shielded. Low profile with maximum height of 3.3 mm. Complete inductance range up to 1000uH.
- High heat resistance. High rated current. Low price

ELECTRICAL SPECIFICATIONS

- Inductance range Series SPT603 from 1.0uH to 1000uH
 Series SPT703 from 1.0uH to 1000uH
 Series SPT1003 from 1.5uH to 1000uH
- Test frequency 100 KHz with test voltage level 1 Volt
- Test equipment Quadtech 1750 LCR Meter
- Rated current range Series SPT603 from 0.12 A to 2.50 A
 Series SPT703 from 0.16 A to 3.25 A
 Series SPT1003 from 0.18 A to 4.00 A
- Rated current Series SPT603 & SPT703 Obtained when Lo drops 10% typical & based on temperature rises up to 40 °C max.
 Series SPT1003 Obtained when Lo drops 30% typical & based on temperature rises up to 40 °C max.

PHYSICAL SPECIFICATIONS

- Operating temperature - 25 °C to +85 °C
- Shielding 100% Ferrite
- Packaging T & R 1000 pieces per reel for each series
- Tape & reel spec. Tape 24 mm embossed carrier with 330 mm plastic reel
- Construction Surface Mount, Ferrite sleeve + base
- Terminal Tinned copper plate

DIMENSIONS IN MILLIMETERS

SERIES	A (± 0.3mm)	B (± 0.3mm)	C (± 0.2mm)	D (± 0.2mm)	E (± 0.2mm)
SPT603	6.0	2.9	2.0	1.5	3.0
SPT703	7.0	3.0	2.0	1.5	4.0
SPT1003	10.0	3.0	2.4	2.0	6.0

ELECTRICAL SPECIFICATIONS

SERIES SPT603

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (A)
SPT603-1R0M	1.0	20	0.019	2.50
SPT603-1R5M	1.5	20	0.025	2.20
SPT603-2R2M	2.2	20	0.032	1.90
SPT603-3R3M	3.3	20	0.050	1.50
SPT603-4R7M	4.7	20	0.060	1.30
SPT603-6R8M	6.8	20	0.070	1.20
SPT603-100M	10	20	0.120	1.00
SPT603-120M	12	20	0.130	0.90
SPT603-150M	15	20	0.150	0.80
SPT603-180M	18	20	0.160	0.75
SPT603-220M	22	20	0.230	0.65
SPT603-270M	27	20	0.250	0.60
SPT603-330M	33	20	0.340	0.55
SPT603-390M	39	20	0.380	0.52
SPT603-470M	47	20	0.420	0.50
SPT603-560M	56	20	0.570	0.48
SPT603-680M	68	20	0.620	0.45
SPT603-820M	82	20	0.900	0.40
SPT603-101M	100	20	0.990	0.35
SPT603-121M	120	20	1.150	0.30
SPT603-151M	150	20	1.750	0.28
SPT603-181M	180	20	1.950	0.26
SPT603-221M	220	20	2.200	0.22
SPT603-271M	270	20	2.500	0.20
SPT603-331M	330	20	3.200	0.18
SPT603-391M	390	20	3.500	0.17
SPT603-471M	470	20	4.950	0.16
SPT603-561M	560	20	5.350	0.15
SPT603-681M	680	20	6.300	0.14
SPT603-821M	820	20	8.200	0.13
SPT603-102M	1000	20	9.200	0.12

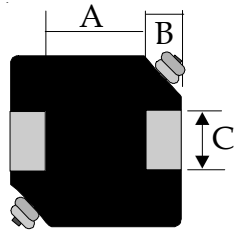
SERIES SPT703

Part Number	L (μH)	Tol % ±	DCR max (Ω)	Rated Current (DC) max (A)
SPT703-1R0M	1.0	20	0.026	3.25
SPT703-1R5M	1.5	20	0.031	3.00
SPT703-2R2M	2.2	20	0.037	2.55
SPT703-3R3M	3.3	20	0.048	2.40
SPT703-4R7M	4.7	20	0.055	2.10
SPT703-6R8M	6.8	20	0.075	1.90
SPT703-100M	10	20	0.100	1.50
SPT703-120M	12	20	0.120	1.45
SPT703-150M	15	20	0.130	1.20
SPT703-180M	18	20	0.160	1.15
SPT703-220M	22	20	0.190	1.05
SPT703-270M	27	20	0.240	1.00
SPT703-330M	33	20	0.300	0.90
SPT703-390M	39	20	0.340	0.80
SPT703-470M	47	20	0.400	0.75
SPT703-560M	56	20	0.550	0.68
SPT703-680M	68	20	0.650	0.65
SPT703-820M	82	20	0.720	0.60
SPT703-101M	100	20	0.820	0.50
SPT703-121M	120	20	1.100	0.48
SPT703-151M	150	20	1.300	0.45
SPT703-181M	180	20	1.500	0.38
SPT703-221M	220	20	2.100	0.35
SPT703-271M	270	20	2.400	0.30
SPT703-331M	330	20	3.100	0.28
SPT703-391M	390	20	4.100	0.25
SPT703-471M	470	20	4.400	0.23
SPT703-561M	560	20	5.100	0.20
SPT703-681M	680	20	7.100	0.18
SPT703-821M	820	20	7.900	0.17
SPT703-102M	1000	20	9.000	0.16

SERIES SPT1003

Part Number	L (μ H)	Tol % \pm	DCR max (Ω)	Rated Current (DC) max (A)
SPT1003-1R5M	1.5	20	0.022	4.00
SPT1003-2R2M	2.2	20	0.025	3.50
SPT1003-3R3M	3.3	20	0.040	3.00
SPT1003-4R7M	4.7	20	0.045	2.50
SPT1003-6R8M	6.8	20	0.060	2.20
SPT1003-100M	10	20	0.070	2.00
SPT1003-120M	12	20	0.095	1.90
SPT1003-150M	15	20	0.120	1.70
SPT1003-180M	18	20	0.130	1.55
SPT1003-220M	22	20	0.180	1.45
SPT1003-270M	27	20	0.200	1.30
SPT1003-330M	33	20	0.210	1.10
SPT1003-390M	39	20	0.270	1.00
SPT1003-470M	47	20	0.300	0.85
SPT1003-560M	56	20	0.400	0.80
SPT1003-680M	68	20	0.440	0.75
SPT1003-820M	82	20	0.490	0.65
SPT1003-101M	100	20	0.670	0.60
SPT1003-121M	120	20	0.740	0.55
SPT1003-151M	150	20	0.790	0.50
SPT1003-181M	180	20	1.200	0.45
SPT1003-221M	220	20	1.350	0.40
SPT1003-271M	270	20	1.800	0.38
SPT1003-331M	330	20	2.000	0.32
SPT1003-391M	390	20	2.100	0.30
SPT1003-471M	470	20	3.500	0.28
SPT1003-561M	560	20	3.900	0.25
SPT1003-681M	680	20	4.100	0.22
SPT1003-821M	820	20	4.550	0.20
SPT1003-102M	1000	20	5.100	0.18

LAND PATTERN



Area	SPT603	SPT703	SPT1003
A	2.80 mm	3.70 mm	5.70 mm
B	1.90 mm	1.90 mm	2.50 mm
C	2.20 mm	2.20 mm	2.80 mm