



# SURFACE-MOUNT TOROIDAL CHOKES

## STC-05,06P,07 SERIES

### FEATURES:

- Higher Frequency
- High Saturation Material
- Low EMI Radiation
- Pick and Place
- Low DC Resistance

### OPTIONS:

- Packaging:Tape & Reel is standard (Qty:2000pcs)
- Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- Electronic Appliances
- DC – DC Conversion (Paraller Mode)
- Isolation/Coupling(Transformer)
- Input Filter(Serial Mode)
- EMI/RFI Suppression

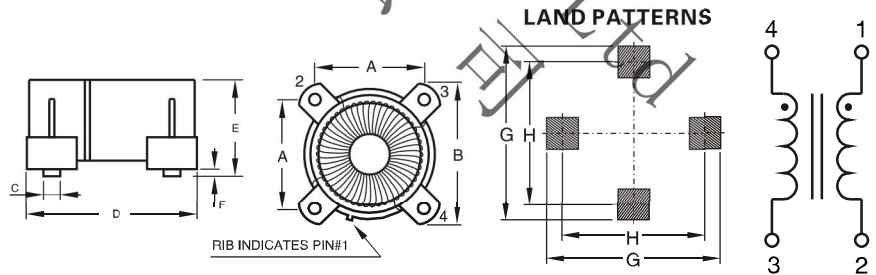
## ELECTRICAL CHARACTERISTICS:

POWDERED IRON CORE				MPP ALLOY CORE			
Part Number	L (μH)	DCR (Ω) Max	IDC (A) Max	Part Number	L (μH)	DCR (Ω) Max	IDC (A) Max
STC-05-R47M	0.47	0.005	7.90	STC-06P-R47M	0.47	0.004	7.90
STC-05-R68M	0.68	0.006	7.20	STC-06P-R68M	0.68	0.005	7.00
STC-05-1R0M	1.00	0.009	5.90	STC-06P-1R0M	1.00	0.006	6.50
STC-05-2R0M	2.00	0.014	4.60	STC-06P-2R0M	2.00	0.007	5.90
STC-05-5R0M	5.00	0.027	3.30	STC-06P-5R0M	5.00	0.014	4.40
STC-05-8R0M	8.00	0.033	3.00	STC-06P-8R0M	8.00	0.019	3.50
STC-05-100M	10.0	0.047	2.50	STC-06P-100M	10.0	0.020	3.40
STC-05-150M	15.0	0.057	2.30	STC-06P-150M	15.0	0.024	3.00
STC-05-200M	20.0	0.085	1.90	STC-06P-200M	20.0	0.055	2.10
STC-05-250M	25.0	0.116	1.60	STC-06P-250M	25.0	0.064	2.00
STC-05-330M	33.0	0.166	1.30	STC-06P-330M	33.0	0.072	1.80
STC-05-500M	50.0	0.202	1.20	STC-06P-500M	50.0	0.111	1.50
STC-05-680M	68.0	0.238	1.10	STC-06P-680M	68.0	0.158	1.20
STC-05-101M	100	0.565	0.72	STC-06P-101M	100	0.303	0.92
STC-05-151M	150	0.696	0.64	STC-06P-151M	150	0.372	0.82
STC-05-201M	200	0.810	0.60	STC-06P-201M	200	0.545	0.64
STC-05-301M	300	1.003	0.54	STC-06P-301M	300	0.672	0.62

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

## TECHNICAL INFORMATION:      PHYSICAL CHARACTERISTICS:

- Testing: (Equivalent acceptable)
- Inductance:Reduced by 10% to 20% @ IDC
- RDC:QuadTech 1880 Milliohmmer
- IDC Max:Lowers inductance by 10–20%
- Temperature range: –55°C to +125°C



DIMENSIONS IN:mm

Part number	A	B	C	D	E	F	G	H
STC05	7.00 ± 0.25	9.14 ± 0.25	1.52 ± 0.25	8.90 ± 0.25	5.08 ± 0.25	1.02Max	12.7	10.3
STC06P	10.2 ± 0.25	13.5 ± 0.25	3.20 ± 0.25	12.4 ± 0.25	7.87Max	1.02Max	17.4	14.35
STC07	12.6 ± 0.25	16.2 ± 0.25	1.8 ± 0.25	16.5 ± 0.25	8.2Max	1.2Max	22.5	17.8

Note:All specifications subject to change without notice.