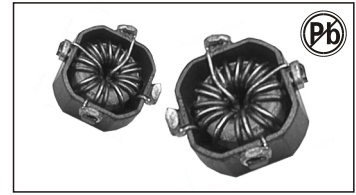


SURFACE-MOUNT TOROIDAL COILS AND COMMON MODE TOROIDAL CHORES

STC SERIES

STC-01, 02, 03, 04



FEATURES:

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

OPTIONS:

- Tape and Reel is Standard
- Custom Design Available
- CMC Design Available
- Tolerance:20% is Standard
- Tighter Tolerances Available

COMMON APPLICATIONS:

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

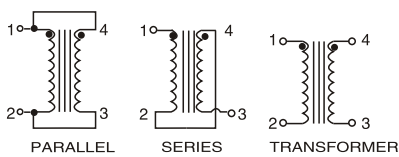
STANDARD SPECIFICATION:

Part Number STC-XX-	Parallel Ratings 01			Parallel Ratings 02			Parallel Ratings 03			Parallel Ratings 04		
	OCL nominal +/-25% (μ H)	IDC A(max)	DCR Ω @20°C	OCL nominal +/-25% (μ H)	IDC A(max)	DCR Ω @20°C	OCL nominal +/-25% (μ H)	IDC A(max)	DCR Ω @20°C	OCL nominal +/-25% (μ H)	IDC A(max)	DCR Ω @20°C
0.33	0.402	10.0	0.0032	0.284	10.9	0.0028	0.368	11.4	0.0027	0.313	12.2	0.0026
0.68	0.752	9.0	0.0039	0.675	9.4	0.0039	0.688	9.3	0.0041	0.744	10.6	0.0034
1.0	1.18	7.26	0.0060	1.26	8.22	0.0050	1.08	8.38	0.0051	1.39	9.23	0.0045
2.0	2.30	5.64	0.010	1.98	6.74	0.0077	2.11	7.26	0.0068	2.18	8.38	0.0054
5.0	4.70	4.27	0.017	5.06	4.34	0.018	5.20	5.24	0.013	4.26	7.21	0.0073
8.0	7.94	3.37	0.028	7.90	3.50	0.027	8.43	4.23	0.020	8.70	5.49	0.013
10.0	10.58	2.84	0.039	11.38	2.89	0.040	9.68	3.64	0.027	10.53	4.67	0.017
15.0	15.23	2.07	0.075	15.48	2.69	0.046	15.52	3.25	0.033	14.70	3.87	0.025
20.0	20.73	1.71	0.109	20.22	2.24	0.067	20.81	2.43	0.061	19.58	3.62	0.029
25.0	24.86	1.46	0.148	25.60	1.89	0.095	24.77	2.34	0.065	25.14	3.02	0.041
33.0	34.26	1.22	0.213	34.84	1.56	0.138	33.71	1.93	0.096	34.80	2.49	0.061
50.0	51.18	0.99	0.327	49.38	1.28	0.206	49.71	1.56	0.147	50.11	2.05	0.089
68.0	67.87	0.92	0.375	66.44	1.07	0.293	68.80	1.28	0.217	68.21	1.70	0.131
100.0	99.45	0.74	0.588	102.38	0.75	0.596	99.07	1.05	0.325	100.57	1.37	0.201
150.0	147.4	0.67	0.713	152.9	0.68	0.722	149.7	0.86	0.489	153.5	1.10	0.313
200.0	198.6	0.62	0.825	197.5	0.64	0.814	198.8	0.71	0.711	200.4	0.92	0.447
300.0	300.8	0.56	1.012	303.7	0.58	1.006	296.2	0.56	1.122	302.8	0.75	0.675

PHYSICAL CHARACTERISTICS

DIMENSIONS:INCHES

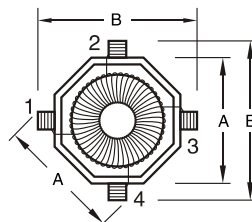
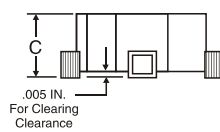
CONNECTION DIAGRAMS



Case Size	A	B	C	D	E	F	G
STC-01	.350	.450	.165	.277	.422	.392	.145
STC-02	.350	.450	.235	.277	.422	.392	.145
STC-03	.450	.550	.190	.348	.492	.492	.160
STC-04	.450	.550	.250	.348	.492	.492	.160

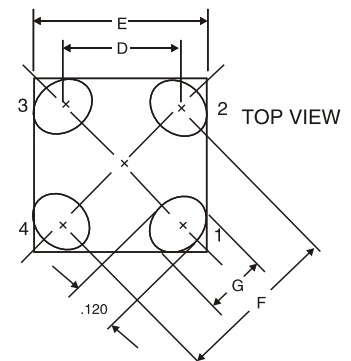
Dimensions in inches,typical

MECHANICAL DIAGRAM



BOTTOM VIEW

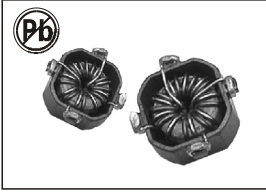
RECOMENDED LAYOUT



TECHNICAL INFORMATION:

- Inductance measure at 100KHz 0.1VRms.
- Insulation Resistance: 100Vdc 1KM Ω min.
- Turns Ratio: 1.1 \pm 0%
- RDC:QuadTech 1880 Milliohmmer
- Soldering temperature:260°C for 4 \pm 1 seconds
- Operating temperature:-40°C to +125°C
- Storage Temperature: -55°C to +125°C
- Different package available per special request
- Max of 35% saturation on DC bias applied

Note:All specifications subject to change without notice.



COMMON MODE CHOKES STC01F SERIES

FEATURES:

- Inductance range from 4.5uH to 205uH
- Current range up to 7.0 Amps
- Noise attenuation up to 44 dB
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

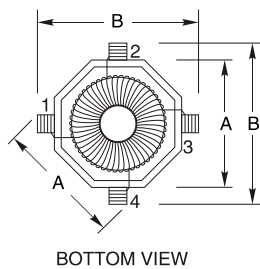
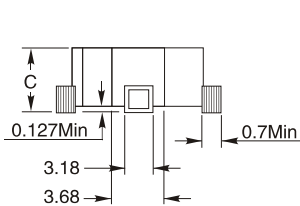
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

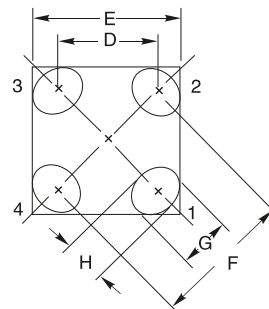
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) Min 100KHz,0.1V	Irms (A)Max	DCR (Ω)Typ (1-2)	DCR (Ω)Typ (4-3)	Lk (uH) Typ 100KHz,0.1V	Interwinding Capacitance (pF)
STC01F-4R5Y	4.5	7.00	0.0027	0.0027	0.05	2.0
STC01F-8R0Y	8	5.70	0.0040	0.0040	0.09	2.1
STC01F-120Y	12.6	4.10	0.0077	0.0077	0.14	2.2
STC01F-180Y	18	3.80	0.0089	0.0089	0.20	2.3
STC01F-250Y	25	3.60	0.0100	0.0100	0.28	2.4
STC01F-320Y	32.8	3.10	0.0138	0.0138	0.36	2.5
STC01F-410Y	41.5	2.60	0.019	0.019	0.45	2.6
STC01F-510Y	51.2	2.20	0.026	0.026	0.056	2.7
STC01F-620Y	62	1.90	0.035	0.035	0.68	2.7
STC01F-730Y	73.7	1.65	0.048	0.048	0.81	2.8
STC01F-101Y	100	1.35	0.070	0.070	1.10	2.9
STC01F-131Y	131	1.15	0.100	0.100	1.45	3.0
STC01F-161Y	166	1.00	0.138	0.138	1.83	3.1
STC01F-201Y	205	0.85	0.186	0.186	2.25	3.2

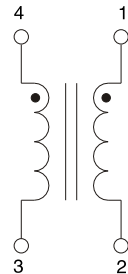
PHYSICAL CHARACTERISTICS



BOTTOM VIEW



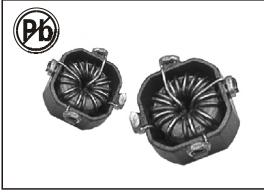
Recommended layout



NOTES:

- Inductance measure at 100KHz 0.1VRms.
- Insulation Resistance: 100Vdc 1KMΩ min.
- Dielectric Strength: 500 Vrms between windings
- Turns Ratio: 1:1
- RDC:QuadTech 1880 Milliohmmer
- Soldering temperature:260°C for 4 ± 1 seconds
- Operating temperature:-40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Different package available per special request
- Max of 35% saturation on DC bias applied

A	B	C	D	E	F	G	H
8.89	11.43	4.2Max	7.04	10.72	9.96	3.68	3.05



COMMON MODE CHOKES STC02F SERIES

FEATURES:

- Inductance range from 25uH to 1340uH
- Current range up to 5.35 Amps
- Noise attenuation up to 44 dB
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

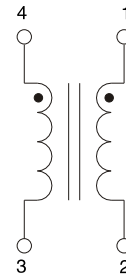
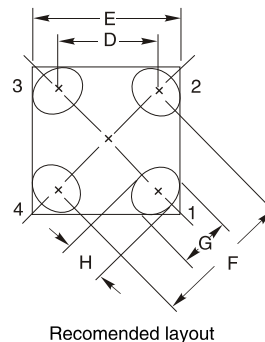
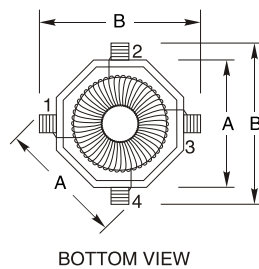
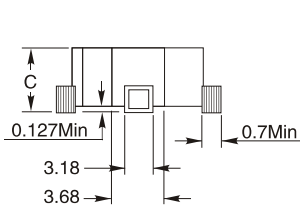
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) Min 100KHz,0.1V	I _{rms} (A)Max	DCR (Ω)Typ (1-2)	DCR (Ω)Typ (4-3)	L _k (uH) Typ 100KHz,0.1V	Interwinding Capacitance (pF)
STC02F-250Y	25	5.35	0.005	0.005	0.22	2.0
STC02F-400Y	40	4.40	0.008	0.008	0.34	2.3
STC02F-570Y	57	3.60	0.012	0.012	0.47	2.5
STC02F-101Y	102	2.80	0.019	0.019	0.80	2.8
STC02F-161Y	160	2.30	0.029	0.029	1.25	3.1
STC02F-231Y	230	1.85	0.044	0.044	1.75	3.4
STC02F-271Y	270	1.60	0.060	0.060	2.00	3.6
STC02F-361Y	360	1.35	0.084	0.084	2.60	3.9
STC02F-461Y	460	1.10	0.120	0.120	3.30	4.1
STC02F-571Y	575	0.94	0.170	0.170	4.00	4.3
STC02F-701Y	700	0.80	0.230	0.230	5.00	4.6
STC02F-911Y	915	0.67	0.330	0.330	6.30	4.9
STC02F-102Y	1070	0.58	0.440	0.440	7.30	5.1
STC02F-132Y	1340	0.50	0.620	0.620	9.00	5.4

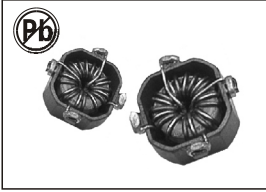
PHYSICAL CHARACTERISTICS



NOTES:

- Inductance measure at 100KHz 0.1VRms.
- Insulation Resistance: 100Vdc 1KMΩ min.
- Dielectric Strength: 500 Vrms between windings
- Turns Ratio: 1:1
- RDC:QuadTech 1880 Milliohmmer
- Soldering temperature:260°C for 4 ± 1 seconds
- Operating temperature:-40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Different package available per special request
- Max of 35% saturation on DC bias applied

A	B	C	D	E	F	G	H
8.89	11.43	6.0Max	7.04	10.72	9.96	3.68	3.05



COMMON MODE CHOKES STC04F SERIES

FEATURES:

- Inductance range from 28uH to 1310uH
- Current range up to 5.7 Amps
- Noise attenuation up to 44 dB
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

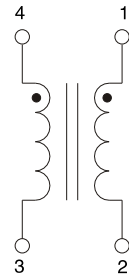
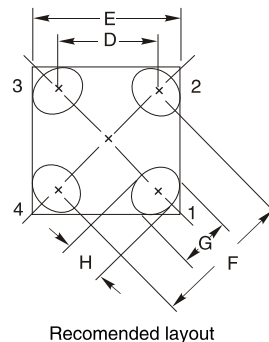
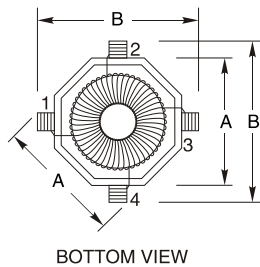
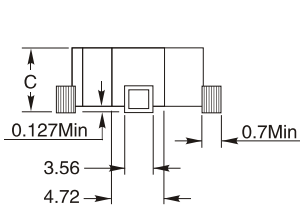
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(OA) (uH) Min 100KHz,0.1V	Irms (A)Max	DCR (Ω)Typ (1-2)	DCR (Ω)Typ (4-3)	Lk (uH) Typ 100KHz,0.1V	Interwinding Capacitance (pF)
STC04F-280Y	28	5.70	0.005	0.005	0.31	2.80
STC04F-450Y	45	5.10	0.006	0.006	0.46	3.05
STC04F-640Y	64	4.75	0.007	0.007	0.64	3.30
STC04F-881Y	88	3.95	0.010	0.010	0.85	3.50
STC04F-141Y	146	3.10	0.017	0.017	1.30	3.70
STC04F-211Y	217	2.85	0.020	0.020	1.90	3.90
STC04F-251Y	258	2.45	0.027	0.027	2.20	4.15
STC04F-351Y	350	2.00	0.040	0.040	3.00	4.40
STC04F-401Y	400	1.70	0.053	0.053	3.30	4.65
STC04F-511Y	518	1.45	0.076	0.076	4.20	4.85
STC04F-641Y	648	1.20	0.107	0.107	5.10	5.10
STC04F-791Y	790	1.05	0.145	0.145	6.10	5.35
STC04F-102Y	1030	0.88	0.210	0.210	7.80	5.55
STC04F-132Y	1310	0.75	0.300	0.300	9.60	5.80

PHYSICAL CHARACTERISTICS



NOTES:

- Inductance measure at 100KHz 0.1VRms.
- Insulation Resistance: 100Vdc 1KMΩ min.
- Dielectric Strength: 500 Vrms between windings
- Turns Ratio: 1:1
- RDC:QuadTech 1880 Milliohmmer
- Soldering temperature:260°C for 4 ± 1 seconds
- Operating temperature:-40°C to +125°C
- Storage Temperature: -40°C to +125°C
- Different package available per special request
- Max of 35% saturation on DC bias applied

A	B	C	D	E	F	G	H
11.43	13.97	6.35Max	8.84	12.5	12.5	4.06	3.05



SURFACE-MOUNT TOROIDAL CHOKES

STC-05,06P 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

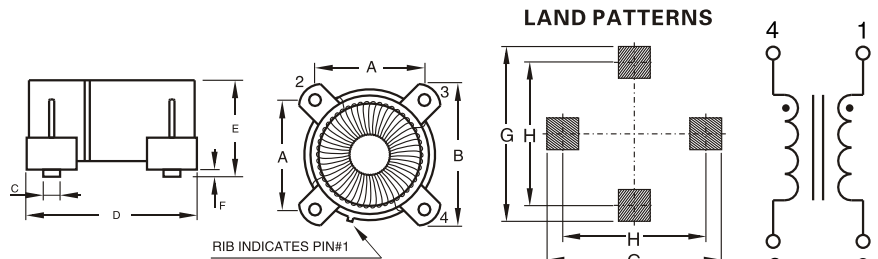
ELECTRICAL CHARACTERISTICS:

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

Note:All specifications subject to change without notice.

COMMON MODE POWER LINE CHOKE

STC05A SERIES



FEATURES:

- Common mode chokes for telecom applications
- High impedance to minimize common mode noise
- Excellent EMI performance
- Meets UL94V-0 flammability standard

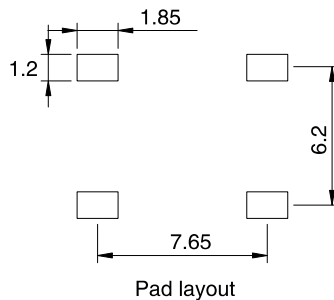
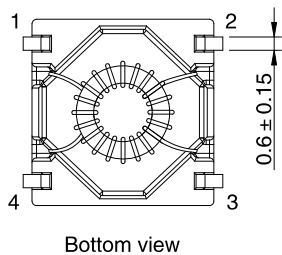
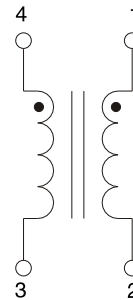
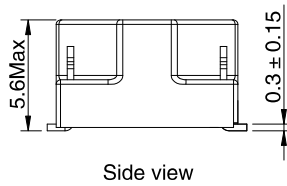
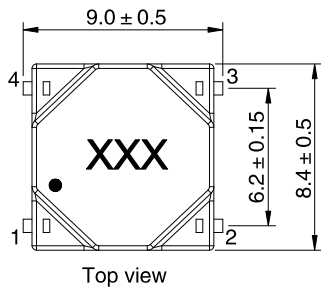
APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) +50%/-30% 10KHz,0.1V	DCR (mΩ)Max	IDC (A)Max	Hi-Pot (Vdc) 50Hz,1mA,1S
STC05A-102Y	1000	180	0.95	500
STC05A-222Y	2200	300	0.75	500
STC05A-332Y	3300	360	0.52	500
STC05A-392Y	3900	540	0.52	500
STC05A-472Y	4700	900	0.35	500

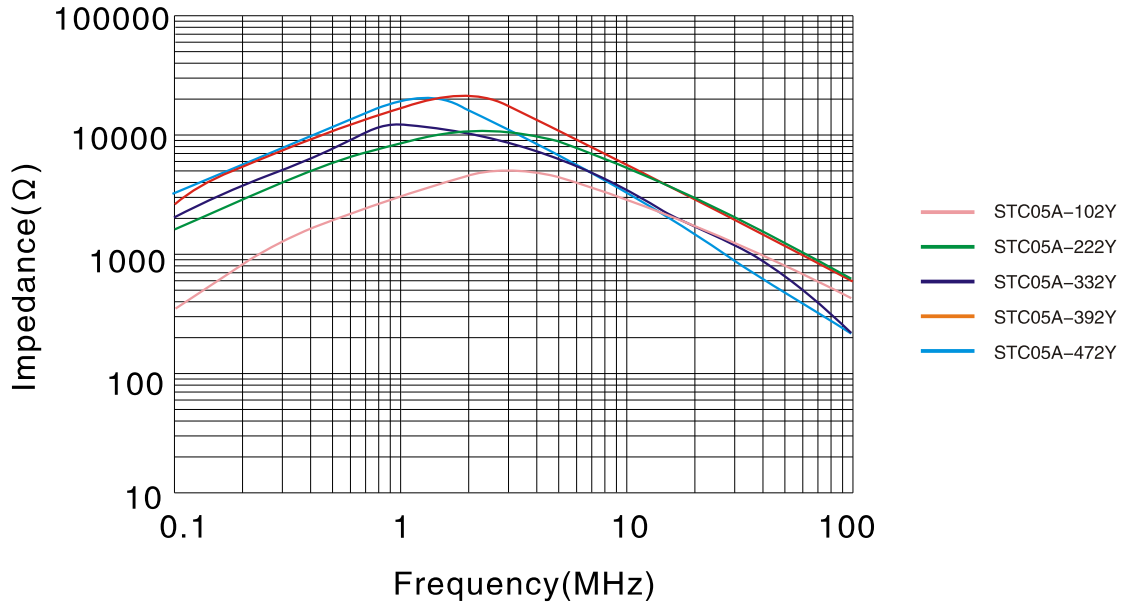
PHYSICAL CHARACTERISTICS



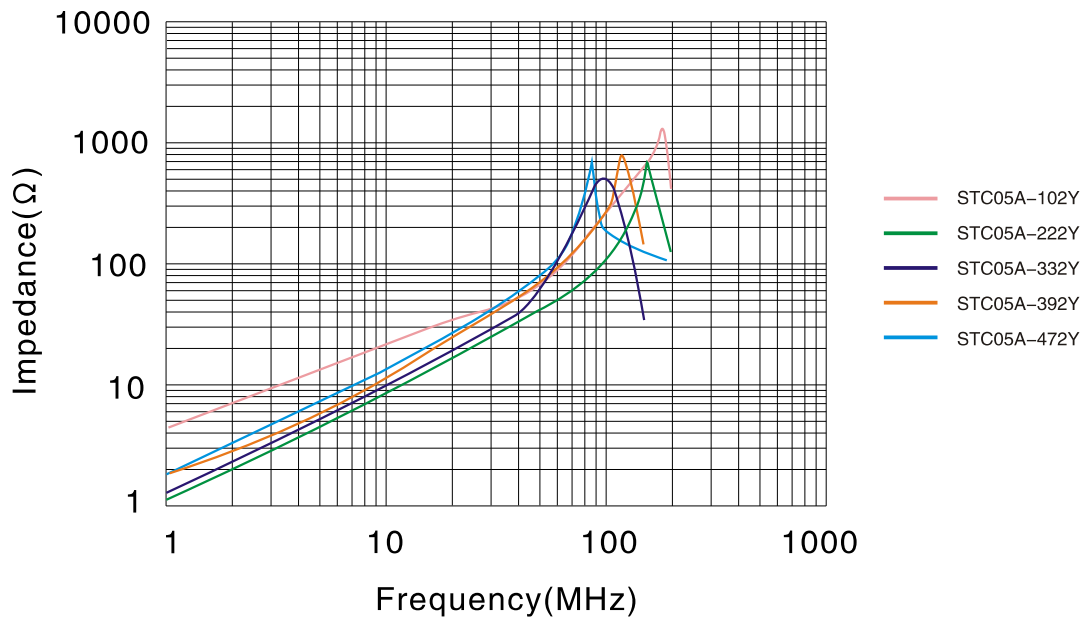
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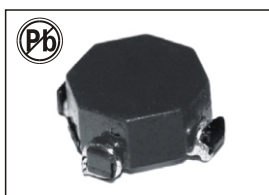
- Temperature Rise40°C typical at IDC
- Operating Temperature-40°C to +125°C(Including self temperature rise)
- Storage Temperature-40°C to +125°C
- Soldering245°C, 5 seconds max
- Dielectric Strength500 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE





COMMON MODE CHOKES

STC05F SERIES

FEATURES:

- Inductance range from 25uH to 1600uH
- Current range up to 5.35 Amps
- Noise attenuation up to 5.4 dB
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

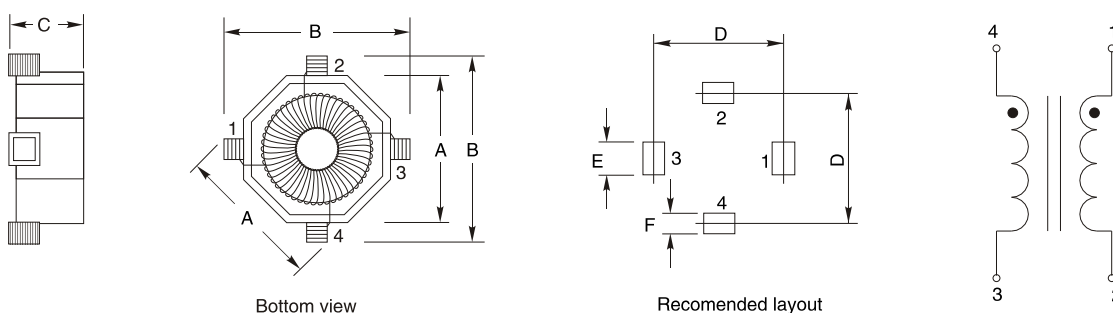
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 30% 100KHz,0.1V	I _{rms} (A)Max	DCR (mΩ)Typ (1-2)	DCR (mΩ)Typ (4-3)	L _k (uH) Typ 100KHz,0.1V	Interwinding Capacitance (pF)
STC05F-250Y	25.0	5.35	3.10	3.10	0.22	2.00
STC05F-400Y	40.0	4.40	3.89	3.89	0.34	2.30
STC05F-700Y	70.0	3.60	5.35	5.35	0.47	2.50
STC05F-950Y	95.0	2.80	7.97	7.97	0.80	2.80
STC05F-151Y	150.0	2.30	16.85	16.85	1.25	3.10
STC05F-271Y	275.0	1.85	34.53	34.53	1.75	3.40
STC05F-321Y	320.0	1.60	39.72	39.72	2.00	3.60
STC05F-401Y	400.0	1.35	42.73	42.73	2.60	3.90
STC05F-501Y	500.0	1.10	57.43	57.43	3.30	4.10
STC05F-621Y	620.0	0.94	73.72	73.72	4.00	4.30
STC05F-751Y	750.0	0.80	98.34	98.34	5.00	4.60
STC05F-112Y	1100.0	0.67	161.2	161.2	6.30	4.90
STC05F-132Y	1300.0	0.58	245.5	245.5	7.30	5.10
STC05F-162Y	1600.0	0.50	350.5	350.5	9.00	5.40

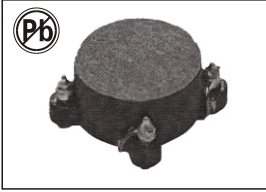
PHYSICAL CHARACTERISTICS



NOTES:

- Inductance measure at 100KHz 0.1VRms.
- Insulation Resistance: 100Vdc 1KMΩ min.
- Dielectric Strength: 500 Vrms between windings
- Turns Ratio: 1:1
- RDC:QuadTech 1880 Milliohmeter
- Soldering temperature:260°C for 4 ± 1 seconds
- Operating temperature:-40°C to +125°C
- Storage Temperature: -40°C to +125°C

A	B	C	D	E	F
8.8	11.8Max	5.2Max	9.9	3.5	3.0



COMMON MODE CHOKES STC06 SERIES

FEATURES:

- Inductance range from 0.075mH to 12mH
- Current range up to 9.8 Amps
- High resonant frequency
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Packaging: Tape & Reel is standard
Bulk packaging available for smaller quantities

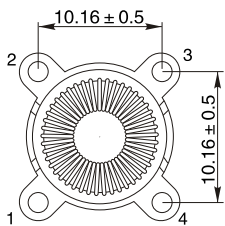
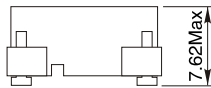
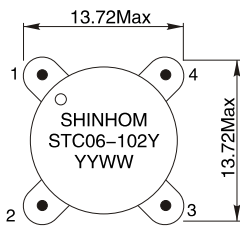
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

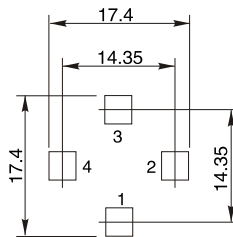
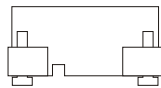
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (mH) ± 25% 10KHz,0.1V	Leakage inductance (uH)Max	DCR (Ω)Max	I _{rms} (A) ΔT=20°C	I _{rms} (A) ΔT=40°C
STC06-101Y	0.1	0.8	0.006	6.95	9.80
STC06-151Y	0.15	1.1	0.010	5.75	8.20
STC06-221Y	0.22	1.5	0.012	4.50	6.60
STC06-331Y	0.33	2.1	0.017	4.25	6.40
STC06-501Y	0.5	2.6	0.024	3.70	5.30
STC06-751Y	0.75	3.8	0.035	3.00	4.40
STC06-102Y	1.0	4.6	0.049	2.70	4.05
STC06-122Y	1.2	5.5	0.068	2.25	3.45
STC06-182Y	1.8	8.0	0.106	1.70	2.50
STC06-222Y	2.2	10.5	0.150	1.45	2.25
STC06-332Y	3.3	17.0	0.210	1.10	2.00
STC06-502Y	5.0	27.0	0.320	0.90	1.35
STC06-752Y	7.5	42.0	0.640	0.80	1.10
STC06-103Y	10.0	55.0	0.900	0.70	0.95
STC06-123Y	12.0	70.0	1.700	0.50	0.65

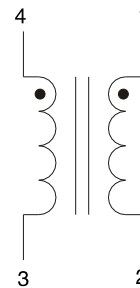
PHYSICAL CHARACTERISTICS



Bottom view



Recommended layout

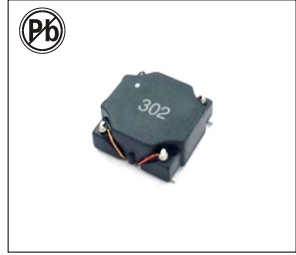


NOTES:

1. Inductance tested at 10KHz,0.1V
2. DCR Measured at 25°C
3. Rated voltage: 1500V for 2Seconds between windings
4. I_{rms} current: Current applied to one winding resulting in a Temperature rise of 20°C or 40°C at an ambient temperature of 25°C
5. Electrical specifications measured at 25°C
6. Operating temperature: -40°C to +105°C
7. Storage temperature: -55°C to +130°C

COMMON MODE POWER LINE CHOKE

STC06A SERIES



FEATURES:

- Common mode chokes for AC power lines
- High impedance to minimize common mode noise
- Excellent EMI performance
- Meets UL94V-0 flammability standard

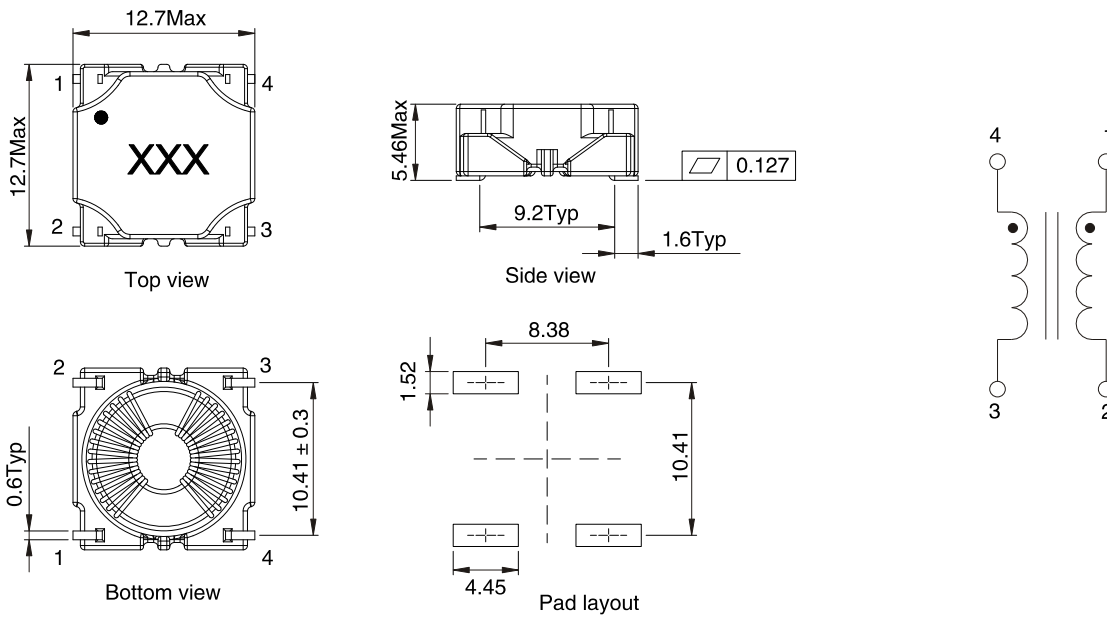
APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 35% 100KHz,0.1V	DCR (mΩ)Max	IDC (A)Max	Hi-Pot (Vdc) 50Hz,1mA,1S
STC06A-881Y	880	110	1.63	1000
STC06A-112Y	1170	200	1.22	1000
STC06A-302Y	3000	280	0.85	1000
STC06A-392Y	3900	350	0.85	1000
STC06A-682Y	6800	700	0.3	1000

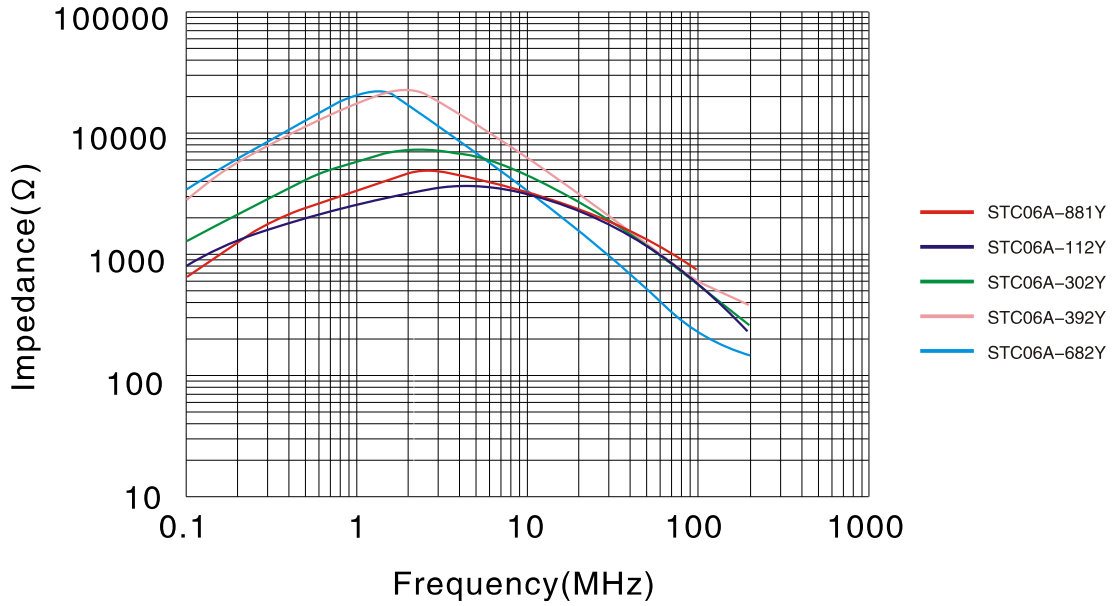
PHYSICAL CHARACTERISTICS



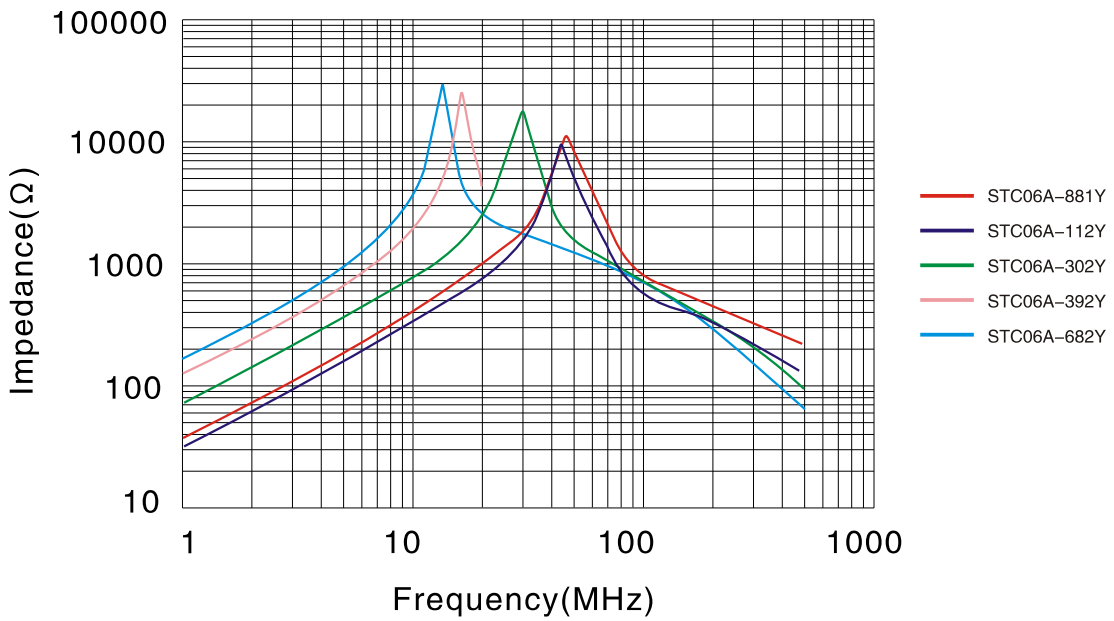
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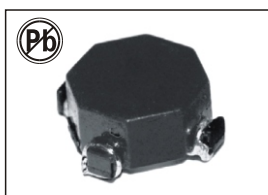
- Temperature Rise40°C typical at IDC
- Operating Temperature-40°C to +125°C(Including self temperature rise)
- Storage Temperature-40°C to +125°C
- Soldering245°C, 5 seconds max
- Dielectric Strength1000 Vrms between windings

IMPEDANCE COMMON MODE



IMPEDANCE DIFFERENTIAL MODE





COMMON MODE CHOKES STC06F SERIES

FEATURES:

- Inductance range from 34.9uH to 1600uH
- Current range up to 5.7 Amps
- Noise attenuation up to 5.8 dB
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

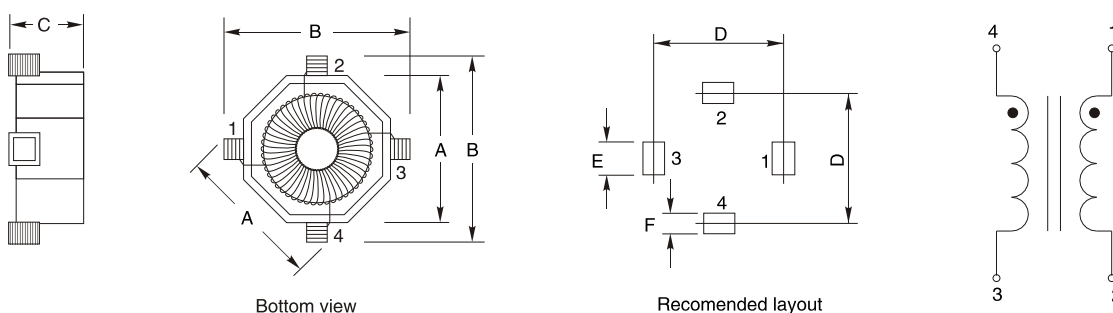
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 30% 100KHz,0.1V	I _{rms} (A)Max	DCR (mΩ)Typ (1-2)	DCR (mΩ)Typ (4-3)	L _k (uH) Typ 100KHz,0.1V	Interwinding Capacitance (pF)
STC06F-340Y	34.9	5.70	4.63	4.63	0.31	2.80
STC06F-500Y	50.0	5.10	5.12	5.12	0.46	3.05
STC06F-750Y	75.0	4.75	6.52	6.52	0.64	3.30
STC06F-101Y	105.0	3.95	7.92	7.92	0.85	3.50
STC06F-171Y	175.0	3.10	15.9	15.9	1.30	3.70
STC06F-261Y	260.0	2.85	19.5	19.5	1.90	3.90
STC06F-311Y	310.0	2.45	25.3	25.3	2.20	4.15
STC06F-421Y	420.0	2.00	36.8	36.8	3.00	4.40
STC06F-481Y	480.0	1.70	50.2	50.2	3.30	4.65
STC06F-621Y	620.0	1.45	62.1	62.1	4.20	4.85
STC06F-781Y	780.0	1.20	92.3	92.3	5.10	5.10
STC06F-951Y	950.0	1.05	132.1	132.1	6.10	5.35
STC06F-122Y	1250.0	0.88	192.2	192.2	7.80	5.55
STC06F-162Y	1600.0	0.75	286.5	286.5	9.60	5.80

PHYSICAL CHARACTERISTICS



NOTES:

Inductance measure at 100KHz 0.1VRms.
 Insulation Resistance: 100Vdc 1KMΩ min.
 Dielectric Strength: 500 Vrms between windings
 Turns Ratio: 1:1
 RDC:QuadTech 1880 Milliohmeter
 Soldering temperature:260°C for 4 ± 1 seconds
 Operating temperature:-40°C to +125°C
 Storage Temperature: -40°C to +125°C

A	B	C	D	E	F
11.4	14.3Max	6.0Max	12.44	3.5	3.0



COMMON MODE CHOKES STC07 SERIES

FEATURES:

- Inductance range from 1mH to 39mH
- Current range up to 3.0 Amps
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Packaging: Tape & Reel is standard
Bulk packaging available for smaller quantities

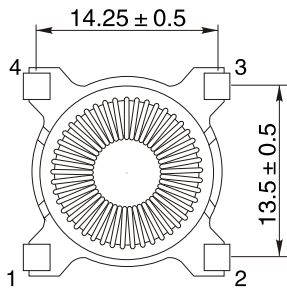
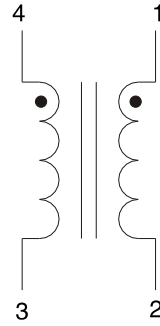
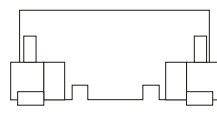
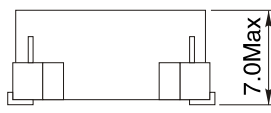
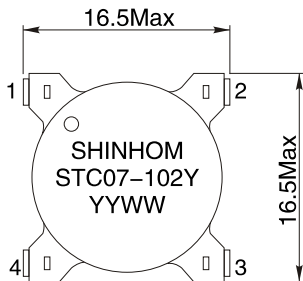
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

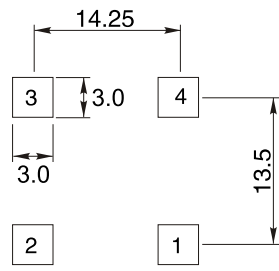
ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (mH) Min 1.0KHz,0.1V	IDC (A)	DCR (mΩ)Max
STC07-102Y	1	2.0	44.5
STC07-402Y	4	1.5	140
STC07-502Y	5	1.0	200
STC07-103Y	10	0.7	350
STC07-203Y	20	0.5	1000
STC07-393Y	39	0.3	3000

PHYSICAL CHARACTERISTICS



Bottom view



Recommended layout

- NOTES:
1. Temperature Rise ...35°C typical at Irms Operating Temperature-55°C to +125°C
Storage Temperature
 2. Storage Temperature-55°C to +125°C
Soldering245°C, 5 seconds max. Dielectric Strength500 Vrms between windings
 3. Core Ferrite
 4. Wire Polyester-coated copper
 5. Terminal Coating Sn-Ag-Cu alloy



COMMON MODE CHOKES STC08 SERIES

FEATURES:

- Inductance range from 0.2mH to 20mH
- Current range up to 7.0 Amps
- Noise attenuation up to 44 dB
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

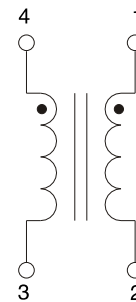
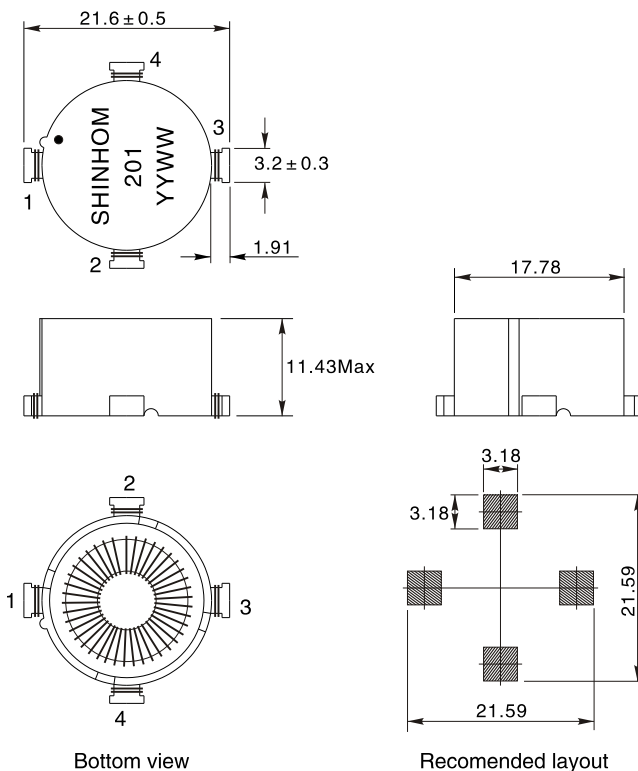
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) Min 1.0KHz,0.1V	Lk (uH) Typ 100KHz,0.1V	DCR (Ω)Max	IDC (A)Max	Typ Frequency range with 20dB Atten
STC08-201Y	200	1.6	0.008	7.0	5-55MHz
STC08-501Y	500	2.2	0.010	6.0	4-40MHz
STC08-751Y	750	2.9	0.012	5.5	1-20MHz
STC08-102Y	1000	3.9	0.020	4.0	500KHz-40MHz
STC08-202Y	2000	0.3	0.030	3.5	300KHz-20MHz
STC08-502Y	5000	0.4	0.070	2.0	100KHz-10MHz
STC08-103Y	10000	0.5	0.150	1.5	50KHz-5MHz
STC08-203Y	20000	0.7	0.250	1.0	25KHz-4MHz

PHYSICAL CHARACTERISTICS



NOTES:

1. Temperature Rise ...35°C typical at Irms Operating Temperature-55°C to +125°C Storage Temperature
2. Storage Temperature-55°C to +125°C Soldering245°C, 5 seconds max. Dielectric Strength500 Vrms between windings
3. Core Ferrite
4. Wire Polyester-coated copper
5. Terminal Coating Sn-Ag-Cu alloy



COMMON MODE CHOKES STC09 SERIES

FEATURES:

- Inductance range from 25uH to 2500uH
- Current range up to 10.0 Amps
- Noise attenuation up to 44 dB
- Frequency range up to 100 MHz
- Meets UL94V-0 flammability standard
- Ferrite core material

OPTIONS:

- Supplied in tape and reel packaging

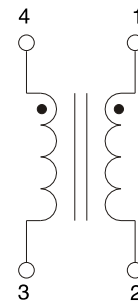
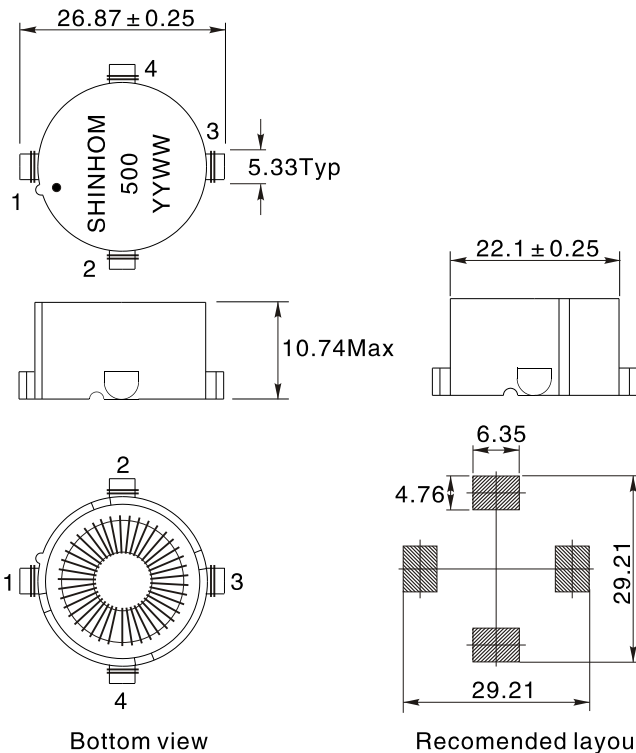
COMMON APPLICATIONS:

- EMI filters
- DC-DC brick power supplies
- Discrete output supplies
- Discrete and point-of-use power supplies

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) (uH) ± 25% 1.0KHz,0.1V	Lk (uH) Typ 100KHz,0.1V	DCR (Ω)Max	IDC (A)Max
STC09-250Y	25	0.7	0.014	10.0
STC09-500Y	50	0.8	0.014	10.0
STC09-101Y	100	1.4	0.016	9.5
STC09-151Y	150	1.8	0.016	9.5
STC09-201Y	200	2.2	0.016	8.5
STC09-301Y	300	3.3	0.020	7.5
STC09-451Y	450	4.6	0.024	6.5
STC09-651Y	650	6.2	0.030	5.5
STC09-102Y	1000	9.3	0.050	3.5
STC09-152Y	1500	14.5	0.090	2.5
STC09-252Y	2500	21.8	0.162	2.2

PHYSICAL CHARACTERISTICS



NOTES:

1. Temperature Rise ...35°C typical at Irms Operating Temperature-55°C to +125°C Storage Temperature
2. Storage Temperature-55°C to +125°C Soldering245°C, 5 seconds max. Dielectric Strength500 Vrms between windings
3. Core Ferrite
4. Wire Polyester-coated copper
5. Terminal Coating Sn-Ag-Cu alloy