



TERMINAL BASE TYPE TOROIDAL INDUCTORS

ATC/TC SERIES

FEATURES:

- Toroidal–shape core reduces coil roar and magnetic flux leakage
- TC Type:
- Compact and high performance
 - Fixed terminal allows easy mounting on PC board and excellent vibration resistance
- ATC Type:
- Effective for eliminating alternator noise within the 1KHz to 200KHz range

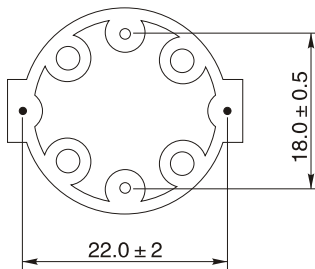
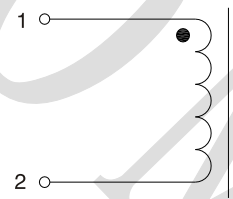
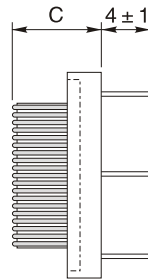
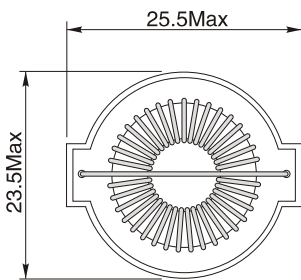
APPLICATIONS:

- TC Type:
- For line filters at the inlet and outlet of switching power supplies
 - For equipment using thyristors such as SCR and triac
 - Light adjustment
 - Heat adjustment
 - Speed adjustment
 - Prevents malfunction
- ATC Type:
- Elimination of alternator noise in car audio devices
 - Smoothing of switching power supplies
 - Normal mode choke(anti-EMI measurement)

ELECTRICAL CHARACTERISTICS:

Part Number	L(uH) 1.0KHz,0.1V	Rated current (A)Max	DCR (Ω)Max	Wire (mm φ)	C (mm)Max
TC10H-01	40 min.	3	0.045	0.8	17.0
TC10H-02	72 min.	3	0.055	0.8	17.0
TC10H-03	110 min.	3	0.068	0.8	17.0
ATC10H-01	300 min.	2	0.1	0.8	21.0
ATC10H-02	330 min.	1.5	0.1	0.8	21.0
ATC10H-03	350 min.	1	0.1	0.8	21.0
ATC10H-04	470 min.	0.5	0.1	0.8	21.0

PHYSICAL CHARACTERISTICS & WINDING



- TC Type: Iron power core
 - ATC Type: Amorphous core
 - Rated voltage: 50VDC max@40°C
 - Inductance Testing: 100KHz 0.1V HP4284A
 - RDC: QuadTech 1880 Milli ohmmeter
 - Operating Temperature: -25°C to 105°C
 - Storage Temperature: -25°C to 105°C
- Note: All specifications subject to change without notice.

HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TM2100 SERIES

FEATURES:

- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Low cost
- Operating temperature: -55°C to +200°C

APPLICATIONS:

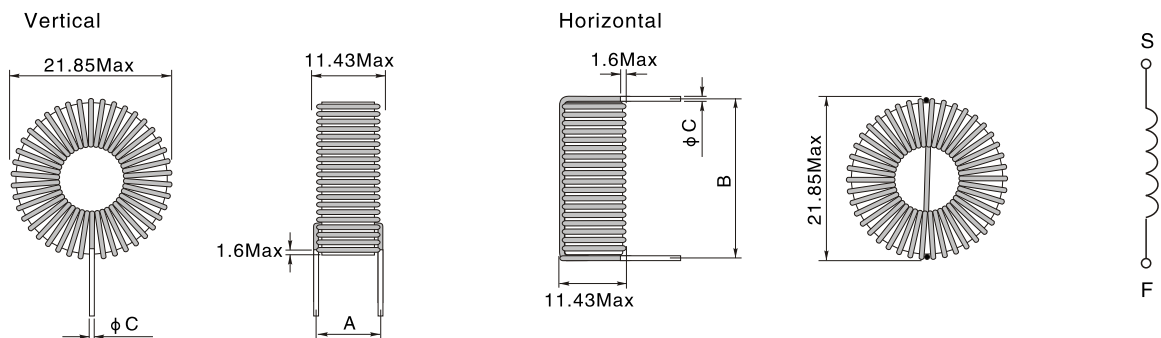
- High operating temperature environments
- DC/DC converter
- Output chokes
- EMI filters



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance LIdc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω).	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TM2100V/H-1R0Y	1.0	21.7	0.8	0.003	8.636	19.558	1.346
TM2100V/H-1R5Y	1.5	19.8	1.2	0.003	8.636	19.558	1.346
TM2100V/H-2R2Y	2.2	18.3	1.8	0.004	8.636	19.558	1.346
TM2100V/H-2R7Y	2.7	17.1	2.1	0.004	8.636	19.558	1.346
TM2100V/H-3R3Y	3.3	16.1	2.6	0.005	8.636	19.558	1.346
TM2100V/H-3R9Y	3.9	15.3	3.0	0.005	8.636	19.558	1.346
TM2100V/H-4R7Y	4.7	14.9	3.5	0.006	8.636	19.558	1.346
TM2100V/H-5R6Y	5.6	14.3	4.1	0.006	8.636	19.558	1.346
TM2100V/H-6R8Y	6.8	13.7	4.9	0.006	8.636	19.558	1.346
TM2100V/H-8R2Y	8.2	13.2	5.9	0.007	8.636	19.558	1.346
TM2100V/H-100Y	10	9.9	7.6	0.012	8.382	19.304	1.067
TM2100V/H-120Y	12	9.6	9.0	0.013	8.382	19.304	1.067
TM2100V/H-150Y	15	9.1	11.0	0.014	8.382	19.304	1.067
TM2100V/H-180Y	18	8.6	13.0	0.016	8.382	19.304	1.067
TM2100V/H-220Y	22	6.7	16.6	0.026	8.128	19.05	0.864
TM2100V/H-270Y	27	6.4	20.1	0.028	8.128	19.05	0.864
TM2100V/H-330Y	33	6.1	24.0	0.031	8.89	20.066	0.864
TM2100V/H-390Y	39	5.9	28.0	0.033	8.89	20.066	0.864
TM2100V/H-470Y	47	5.6	33.1	0.036	8.89	20.066	0.864
TM2100V/H-560Y	56	5.3	38.5	0.040	8.89	20.066	0.864
TM2100V/H-680Y	68	5.1	46.0	0.044	8.89	20.066	0.864
TM2100V/H-820Y	82	4.8	54.0	0.049	8.89	20.066	0.864
TM2100V/H-101Y	100	4.6	64.5	0.053	8.89	20.066	0.864
TM2100V/H-121Y	120	3.5	84.4	0.094	8.636	19.558	0.686
TM2100V/H-151Y	150	3.3	102.8	0.11	8.636	19.558	0.686
TM2100V/H-181Y	180	3.1	120.7	0.12	8.636	19.558	0.686
TM2100V/H-221Y	220	3.0	144.2	0.13	8.89	20.066	0.686
TM2100V/H-271Y	270	2.8	172.6	0.14	8.89	20.066	0.686
TM2100V/H-331Y	330	2.7	206.0	0.16	8.89	20.066	0.686
TM2100V/H-391Y	390	2.1	266.7	0.27	8.382	19.304	0.559
TM2100V/H-471Y	470	2.0	314.4	0.29	8.89	20.066	0.559
TM2100V/H-561Y	560	1.9	366.9	0.32	8.89	20.066	0.559
TM2100V/H-681Y	680	1.8	435.1	0.35	8.89	20.066	0.559
TM2100V/H-821Y	820	1.7	512.0	0.39	9.398	20.574	0.559
TM2100V/H-102Y	1000	1.6	608.2	0.43	9.398	20.574	0.559

PHYSICAL CHARACTERISTICS: WINDING:



HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TM2200 SERIES

FEATURES:

- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Low cost
- Operating temperature: -55°C to +200°C

APPLICATIONS:

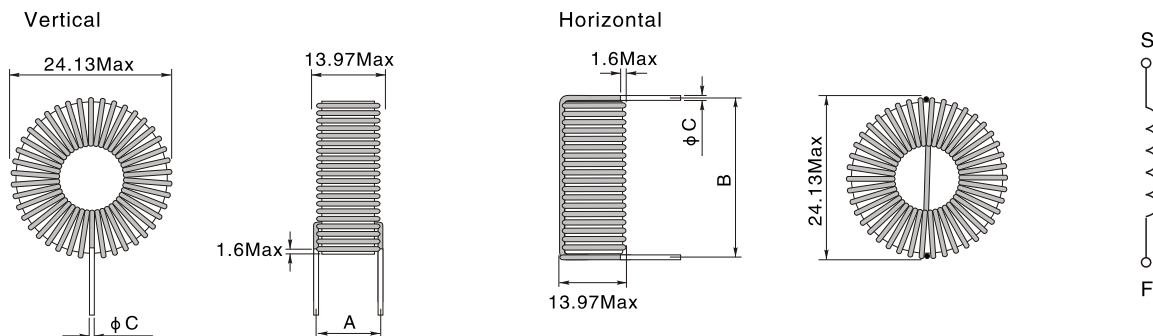
- High operating temperature environments
- DC/DC converter
- Output chokes
- EMI filters



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω).	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TM2200V/H-1R2Y	1.2	23.8	1.0	0.003	11.684	22.352	1.346
TM2200V/H-1R8Y	1.8	21.8	1.5	0.004	11.684	22.352	1.346
TM2200V/H-2R2Y	2.2	20.1	1.8	0.005	11.684	22.352	1.346
TM2200V/H-3R3Y	3.3	18.8	2.7	0.005	11.684	22.352	1.346
TM2200V/H-3R9Y	3.9	17.8	3.1	0.006	11.684	22.352	1.346
TM2200V/H-4R7Y	4.7	16.9	3.7	0.006	11.684	22.352	1.346
TM2200V/H-5R6Y	5.6	16.1	4.4	0.007	11.684	22.352	1.346
TM2200V/H-6R8Y	6.8	15.7	5.2	0.007	11.684	22.352	1.346
TM2200V/H-8R2Y	8.2	15.1	6.2	0.008	11.684	22.352	1.346
TM2200V/H-100Y	10	11.2	7.9	0.014	11.684	22.352	1.346
TM2200V/H-120Y	12	10.9	9.4	0.015	11.684	22.352	1.346
TM2200V/H-150Y	15	10.3	11.5	0.017	11.684	22.352	1.346
TM2200V/H-180Y	18	9.7	13.6	0.018	11.684	22.352	1.346
TM2200V/H-220Y	22	9.3	16.3	0.020	11.43	22.1	1.067
TM2200V/H-270Y	27	8.9	19.7	0.022	11.43	22.1	1.067
TM2200V/H-330Y	33	8.4	23.5	0.025	11.43	22.1	1.067
TM2200V/H-390Y	39	8.1	27.4	0.026	11.43	22.1	1.067
TM2200V/H-470Y	47	6.4	34.9	0.042	11.18	21.844	0.864
TM2200V/H-560Y	56	6.1	40.9	0.046	11.18	21.844	0.864
TM2200V/H-680Y	68	5.8	48.8	0.050	11.18	21.844	0.864
TM2200V/H-820Y	82	5.6	57.6	0.055	12.2	22.86	0.864
TM2200V/H-101Y	100	5.3	68.9	0.061	12.2	22.86	0.864
TM2200V/H-121Y	120	5.0	80.8	0.067	12.2	22.86	0.864
TM2200V/H-151Y	150	4.8	98.4	0.075	12.2	22.86	0.864
TM2200V/H-181Y	180	4.6	115.6	0.082	12.2	22.86	0.864
TM2200V/H-221Y	220	4.3	137.5	0.091	12.2	22.86	0.864
TM2200V/H-271Y	270	3.3	184.8	0.16	11.684	22.352	0.686
TM2200V/H-331Y	330	3.1	220.7	0.18	11.684	22.352	0.686
TM2200V/H-391Y	390	3.0	255.2	0.19	11.684	22.352	0.686
TM2200V/H-471Y	470	2.8	300.5	0.21	12.446	23.114	0.686
TM2200V/H-561Y	560	2.7	350.3	0.23	12.446	23.114	0.686
TM2200V/H-681Y	680	2.6	414.8	0.27	12.446	23.114	0.686
TM2200V/H-821Y	820	2.0	548.5	0.44	12.446	23.114	0.559
TM2200V/H-102Y	1000	1.9	653.1	0.49	12.446	23.114	0.559

PHYSICAL CHARACTERISTICS: WINDING:



HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TM2300 SERIES

FEATURES:

- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Low cost
- Operating temperature: -55°C to +200°C

APPLICATIONS:

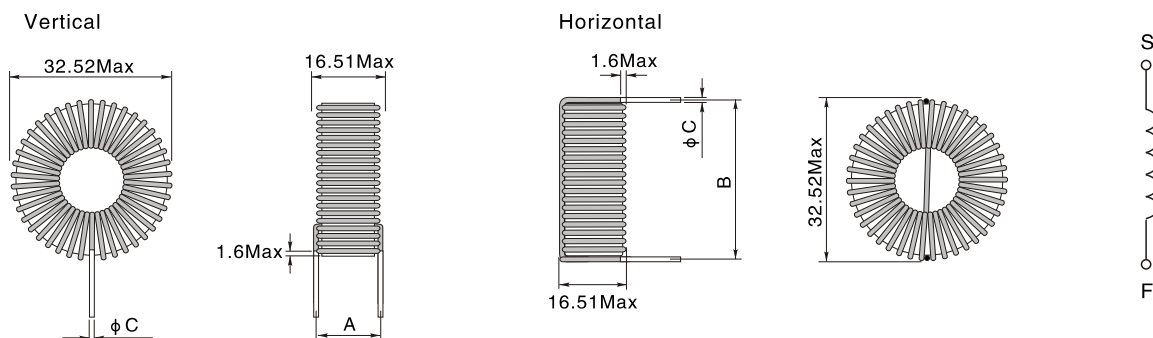
- High operating temperature environments
- DC/DC converter
- Output chokes
- EMI filters



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω).	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TM2300V/H-1R2Y	1.2	38.7	1.0	0.002	14.224	29.97	1.68
TM2300V/H-1R8Y	1.8	34.6	1.5	0.003	14.224	29.97	1.68
TM2300V/H-2R7Y	2.7	31.6	2.2	0.003	14.224	29.97	1.68
TM2300V/H-3R9Y	3.9	29.2	3.1	0.004	14.224	29.97	1.68
TM2300V/H-4R7Y	4.7	27.3	3.7	0.004	14.224	29.97	1.68
TM2300V/H-5R6Y	5.6	25.8	4.3	0.005	14.224	29.97	1.68
TM2300V/H-6R8Y	6.8	24.5	5.1	0.005	14.224	29.97	1.68
TM2300V/H-8R2Y	8.2	24.3	6.0	0.005	14.224	29.97	1.68
TM2300V/H-100Y	10	23.3	7.2	0.006	14.224	29.97	1.68
TM2300V/H-120Y	12	22.4	8.5	0.006	14.224	29.97	1.68
TM2300V/H-150Y	15	20.8	10.3	0.007	14.224	29.97	1.68
TM2300V/H-180Y	18	20.2	12.2	0.007	14.224	29.97	1.68
TM2300V/H-220Y	22	19.0	14.5	0.008	14.224	29.97	1.68
TM2300V/H-270Y	27	14.3	19.2	0.014	13.462	28.96	1.35
TM2300V/H-330Y	33	13.6	23.0	0.015	13.462	28.96	1.35
TM2300V/H-390Y	39	13.0	26.7	0.017	13.462	28.96	1.35
TM2300V/H-470Y	47	10.0	34.7	0.028	13.208	28.7	1.067
TM2300V/H-560Y	56	9.7	40.8	0.030	13.208	28.7	1.067
TM2300V/H-680Y	68	9.2	48.5	0.034	13.208	28.7	1.067
TM2300V/H-750Y	75	9.0	52.6	0.036	13.208	28.7	1.067
TM2300V/H-820Y	82	8.8	57.4	0.037	13.208	28.7	1.067
TM2300V/H-101Y	100	8.3	68.3	0.041	14.224	29.72	1.067
TM2300V/H-121Y	120	8.0	80.5	0.045	14.224	29.72	1.067
TM2300V/H-151Y	150	7.5	97.9	0.050	14.224	29.72	1.067
TM2300V/H-181Y	180	7.2	114.5	0.055	14.224	29.72	1.067
TM2300V/H-221Y	220	6.8	136.6	0.061	14.224	29.72	1.067
TM2300V/H-271Y	270	6.5	163.2	0.067	14.224	29.72	1.067
TM2300V/H-331Y	330	4.9	218.3	0.10	13.716	29.47	0.94
TM2300V/H-391Y	390	4.7	252.8	0.13	13.716	29.47	0.94
TM2300V/H-471Y	470	4.5	297.9	0.14	13.716	29.47	0.94
TM2300V/H-561Y	560	3.4	389.1	0.24	13.462	28.96	0.686
TM2300V/H-681Y	680	3.2	461.4	0.27	13.462	28.96	0.686
TM2300V/H-821Y	820	3.1	545.2	0.30	13.462	28.96	0.686
TM2300V/H-102Y	1000	2.9	648.2	0.33	14.732	29.72	0.686

PHYSICAL CHARACTERISTICS: WINDING:



HIGH CURRENT TOROID INDUCTORS

TR2000 SERIES



FEATURES:

- Low radiation
- Low core loss
- High operation frequency
- High current capacity
- Low core saturation
- Horizontal or vertical mount
- Operating temperature: -55°C to +105°C

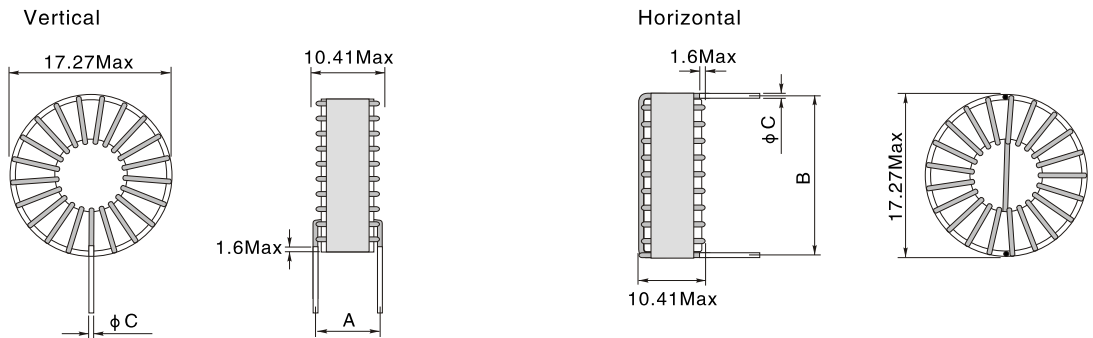
APPLICATIONS:

- High current, low voltage converters
- High-speed computers
- Output chokes
- Video game machines
- EMI Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% 10KHz,0.1V	Rated current Idc (A)	Inductance L1dc(μH) ±20% 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TR2000V/H-1R2M	1.2	20.2	0.86	0.0022	8.89	15.24	1.5
TR2000V/H-3R3M	3.3	11.1	2.5	0.0067	8.38	14.73	1.067
TR2000V/H-3R9M	3.9	10.5	3.0	0.0074	8.38	14.73	1.067
TR2000V/H-4R7M	4.7	10.1	3.5	0.0077	8.38	14.73	1.067
TR2000V/H-5R6M	5.6	9.7	4.0	0.0084	8.38	14.73	1.067
TR2000V/H-6R8M	6.8	7.2	5.7	0.013	7.87	14.22	0.864
TR2000V/H-8R2M	8.2	7.0	6.4	0.014	7.87	14.22	0.864
TR2000V/H-100M	10	6.6	7.9	0.015	7.87	14.22	0.864
TR2000V/H-120M	12	6.4	8.7	0.016	7.87	14.22	0.864
TR2000V/H-150M	15	4.7	12.4	0.029	7.37	13.46	0.686
TR2000V/H-180M	18	4.5	14.5	0.032	7.37	13.46	0.686
TR2000V/H-220M	22	4.3	16.7	0.035	7.37	13.46	0.686
TR2000V/H-270M	27	4.1	20.4	0.039	7.37	13.46	0.686
TR2000V/H-330M	33	3.5	25.4	0.054	7.37	13.46	0.686
TR2000V/H-390M	39	3.3	29.9	0.059	7.37	13.46	0.686
TR2000V/H-470M	47	3.2	34.6	0.064	7.37	13.46	0.686

PHYSICAL CHARACTERISTICS: WINDING:



Winding



Notes:

- Rated Current is based on an I_{rms} temperature rise of 20 °C
- Inductance Test Conditions: 0.1V, 10KHz
- Rated current to cause 40 °C temperature rise
- Operating Temperature: -55 °C to +105 °C (Temperature rise included)

HIGH CURRENT TOROID INDUCTORS

TR2100 SERIES



FEATURES:

- Low radiation
- Low core loss
- High operation frequency
- High current capacity
- Low core saturation
- Horizontal or vertical mount
- Operating temperature: -55°C to +105°C

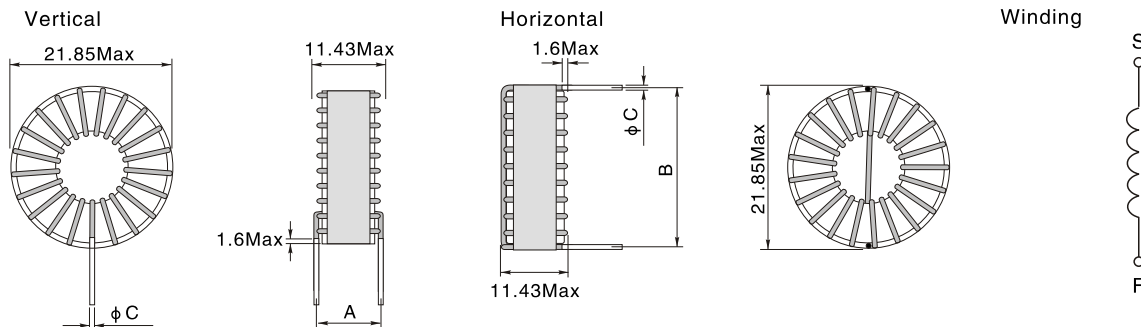
APPLICATIONS:

- High current, low voltage converters
- High-speed computers
- Output chokes
- Video game machines
- EMI Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TR2100V/H-100Y	10	10.8	6.3	0.006	8.64	19.56	1.35
TR2100V/H-120Y	12	10.3	7.4	0.007	8.64	19.56	1.35
TR2100V/H-150Y	15	7.7	10.2	0.012	8.38	19.3	1.067
TR2100V/H-180Y	18	7.4	11.9	0.013	8.38	19.3	1.067
TR2100V/H-220Y	22	7.0	14.2	0.015	8.38	19.3	1.067
TR2100V/H-270Y	27	5.3	19.1	0.026	8.13	19.05	0.864
TR2100V/H-330Y	33	5.0	22.8	0.029	8.13	19.05	0.864
TR2100V/H-390Y	39	4.8	26.4	0.032	8.13	19.05	0.864
TR2100V/H-470Y	47	3.6	34.7	0.055	7.87	19.05	0.686
TR2100V/H-560Y	56	3.4	40.6	0.060	7.87	19.05	0.686
TR2100V/H-680Y	68	3.3	48.3	0.067	7.87	19.05	0.686
TR2100V/H-101Y	100	2.4	75.2	0.13	7.87	18.8	0.56
TR2100V/H-121Y	120	2.2	88.5	0.15	7.87	18.8	0.56
TR2100V/H-151Y	150	3.4	84.3	0.062	8.89	20.07	0.864
TR2100V/H-181Y	180	2.6	113.1	0.11	8.64	19.56	0.686
TR2100V/H-221Y	220	2.4	134.4	0.12	8.64	19.56	0.686
TR2100V/H-271Y	270	1.8	181.6	0.21	8.38	19.3	0.56
TR2100V/H-331Y	330	1.7	216.3	0.23	8.38	19.3	0.56
TR2100V/H-391Y	390	1.7	250.1	0.25	8.38	19.3	0.56
TR2100V/H-471Y	470	1.6	293.8	0.28	8.89	19.3	0.56
TR2100V/H-561Y	560	1.5	341.5	0.30	8.89	20.07	0.56
TR2100V/H-681Y	680	1.4	403.2	0.33	8.89	20.07	0.56
TR2100V/H-821Y	820	1.4	472.8	0.37	8.89	20.07	0.56
TR2100V/H-102Y	1000	1.3	559.2	0.40	9.40	20.57	0.56

PHYSICAL CHARACTERISTICS: WINDING:



Notes:

- Rated Current is based on an Irms temperature rise of 20 °C
- Inductance Test Conditions: 0.1V, 10KHz
- Rated current to cause 30 °C temperature rise
- Operating Temperature: -55 °C to +105 °C (Temperature rise included)

HIGH CURRENT TOROID INDUCTORS

TR2200 SERIES



FEATURES:

- Low radiation
- Low core loss
- High operation frequency
- High current capacity
- Low core saturation
- Horizontal or vertical mount
- Operating temperature: -55°C to +105°C

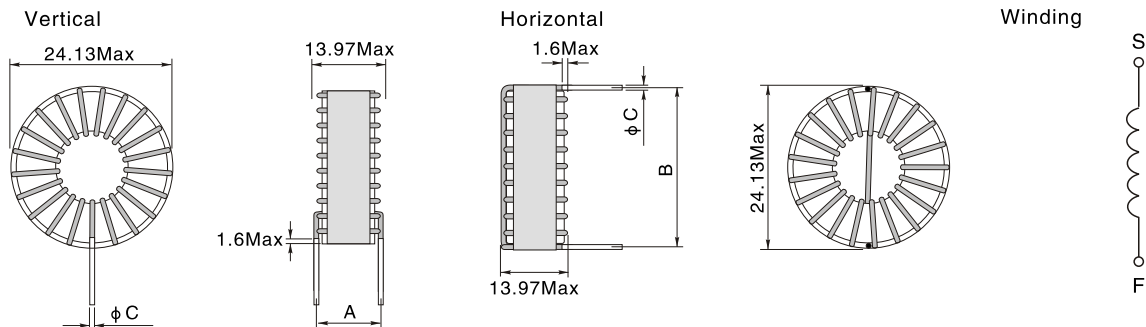
APPLICATIONS:

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- Video game machines
- EMI Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TR2200V/H-100Y	10	12.5	6.7	0.007	11.684	22.35	1.35
TR2200V/H-120Y	12	12.0	7.9	0.008	11.684	22.35	1.35
TR2200V/H-150Y	15	11.3	9.6	0.008	11.684	22.35	1.35
TR2200V/H-180Y	18	10.8	11.3	0.009	11.684	22.35	1.35
TR2200V/H-220Y	22	10.3	13.4	0.010	11.684	22.35	1.35
TR2200V/H-270Y	27	9.8	16.0	0.011	11.684	22.35	1.35
TR2200V/H-330Y	33	7.4	21.6	0.020	11.43	22.1	1.067
TR2200V/H-390Y	39	7.1	25.0	0.022	11.43	22.1	1.067
TR2200V/H-470Y	47	6.7	29.3	0.024	11.43	22.1	1.067
TR2200V/H-560Y	56	6.4	34.1	0.026	11.43	22.1	1.067
TR2200V/H-680Y	68	4.9	45.7	0.046	11.176	21.844	0.86
TR2200V/H-101Y	100	4.4	64.0	0.056	11.176	21.844	0.86
TR2200V/H-121Y	120	3.3	84.4	0.098	11.176	21.844	0.686
TR2200V/H-151Y	150	3.1	102.7	0.11	11.176	21.844	0.686
TR2200V/H-181Y	180	3.8	105.9	0.075	12.192	22.86	0.86
TR2200V/H-221Y	220	3.6	125.6	0.083	12.192	22.86	0.86
TR2200V/H-271Y	270	3.4	149.4	0.092	12.192	22.86	0.86
TR2200V/H-331Y	330	3.3	176.8	0.10	12.192	22.86	0.86
TR2200V/H-391Y	390	2.5	235.3	0.18	11.684	22.35	0.686
TR2200V/H-471Y	470	2.3	275.9	0.19	11.684	22.35	0.686
TR2200V/H-561Y	560	2.2	320.1	0.21	11.684	22.35	0.686
TR2200V/H-681Y	680	2.1	377.2	0.23	12.446	23.1	0.686
TR2200V/H-821Y	820	2.0	441.5	0.26	12.446	23.1	0.686
TR2200V/H-102Y	1000	1.9	521.3	0.28	12.446	23.1	0.686

PHYSICAL CHARACTERISTICS: WINDING:



Notes:

- Rated Current is based on an Irms temperature rise of 20 °C
- Inductance Test Conditions: 0.1V, 10KHz
- Rated current to cause 30 °C temperature rise
- Operating Temperature: -55 °C to +105 °C (Temperature rise included)

HIGH CURRENT TOROID INDUCTORS

TR2300 SERIES



FEATURES:

- Low radiation
- Low core loss
- High operation frequency
- High current capacity
- Low core saturation
- Horizontal or vertical mount
- Operating temperature: -55°C to +105°C

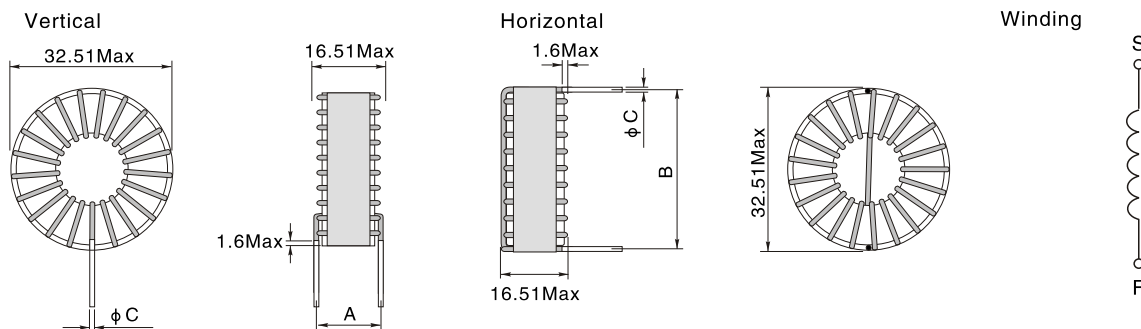
APPLICATIONS:

- High current, low voltage converters
- High-speed computers
- Output chokes
- Video game machines
- EMI Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±15% 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) ±15% 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TR2300V/H-100Y	10	20.0	6.7	0.005	14.224	29.97	1.676
TR2300V/H-120Y	12	19.1	7.8	0.005	14.224	29.97	1.676
TR2300V/H-150Y	15	18.0	9.5	0.006	14.224	29.97	1.676
TR2300V/H-180Y	18	17.2	11.1	0.006	14.224	29.97	1.676
TR2300V/H-220Y	22	16.4	13.2	0.007	14.224	29.97	1.676
TR2300V/H-270Y	27	15.6	15.7	0.008	14.224	29.97	1.676
TR2300V/H-330Y	33	11.7	21.3	0.013	13.462	28.96	1.346
TR2300V/H-390Y	39	11.2	24.7	0.014	13.462	28.96	1.346
TR2300V/H-470Y	47	10.7	29.0	0.016	13.462	28.96	1.346
TR2300V/H-560Y	56	10.2	33.7	0.017	13.462	28.96	1.346
TR2300V/H-680Y	68	7.7	45.2	0.03	13.21	28.7	1.067
TR2300V/H-101Y	100	7.0	63.1	0.037	13.21	28.7	1.067
TR2300V/H-121Y	120	6.7	73.9	0.04	13.21	28.7	1.067
TR2300V/H-151Y	150	5.0	101.4	0.071	12.95	28.45	0.864
TR2300V/H-181Y	180	4.8	118.9	0.078	12.95	28.45	0.864
TR2300V/H-221Y	220	5.8	123.8	0.054	14.224	29.72	1.067
TR2300V/H-271Y	270	5.5	147.2	0.06	14.224	29.72	1.067
TR2300V/H-331Y	330	5.2	174.1	0.067	14.224	29.72	1.067
TR2300V/H-391Y	390	5.0	200.2	0.072	14.224	29.72	1.067
TR2300V/H-471Y	470	3.8	271.4	0.13	13.72	29.46	0.864
TR2300V/H-561Y	560	3.6	314.8	0.14	13.72	29.46	0.864
TR2300V/H-681Y	680	3.4	370.7	0.15	13.72	29.46	0.864
TR2300V/H-821Y	820	2.6	500.9	0.27	13.46	28.96	0.686
TR2300V/H-102Y	1000	2.4	593.6	0.3	13.46	28.96	0.686

PHYSICAL CHARACTERISTICS: WINDING:



- Notes:
- Rated Current is based on an Irms temperature rise of 20 °C
 - Inductance Test Conditions: 0.1V, 10KHz
 - Rated current to cause 30 °C temperature rise
 - Operating Temperature: -55 °C to +105 °C (Temperature rise included)

HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TS2100 SERIES

FEATURES:

- Low core loss
- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Operating temperature: -55°C to +125°C

APPLICATIONS:

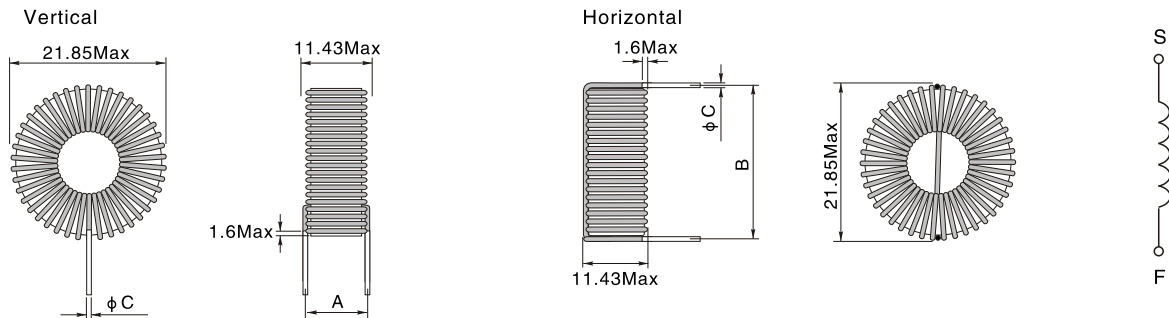
- Switch mode power supplies
- DC/DC converter
- Output chokes
- EMI filters



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) 10KHz,0.1V	Rated current Idc (A)	Inductance L1dc(μH) 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TS2100V/H-1R0Y	1.0	21.4	0.8	0.002	9.4	20.32	1.35
TS2100V/H-1R5Y	1.5	18.5	1.1	0.003	9.4	20.32	1.35
TS2100V/H-2R2Y	2.2	16.5	1.5	0.003	9.4	20.32	1.35
TS2100V/H-3R3Y	3.3	15.1	2.1	0.003	9.4	20.32	1.35
TS2100V/H-4R7Y	4.7	14.0	2.9	0.003	9.4	20.32	1.35
TS2100V/H-5R6Y	5.6	13.1	3.3	0.004	9.4	20.32	1.35
TS2100V/H-6R8Y	6.8	12.3	3.9	0.004	9.4	20.32	1.35
TS2100V/H-8R2Y	8.2	11.7	4.5	0.005	9.4	20.32	1.35
TS2100V/H-100Y	10	11.4	5.2	0.005	9.4	20.32	1.35
TS2100V/H-120Y	12	10.9	6.1	0.006	9.4	20.32	1.35
TS2100V/H-150Y	15	10.5	7.3	0.006	9.4	20.32	1.35
TS2100V/H-180Y	18	10.1	8.5	0.007	9.4	20.32	1.35
TS2100V/H-220Y	22	7.5	11.8	0.012	8.89	19.81	1.067
TS2100V/H-270Y	27	7.3	14.2	0.012	8.89	19.81	1.067
TS2100V/H-330Y	33	6.9	16.6	0.014	8.89	19.81	1.067
TS2100V/H-390Y	39	6.6	18.8	0.015	8.89	19.81	1.067
TS2100V/H-470Y	47	5.2	25.3	0.024	8.38	19.3	0.86
TS2100V/H-560Y	56	5.0	29.3	0.026	8.38	19.3	0.86
TS2100V/H-680Y	68	4.7	34.0	0.03	10.16	19.3	0.86
TS2100V/H-820Y	82	4.6	39.9	0.032	10.16	19.3	0.86
TS2100V/H-101Y	100	4.3	46.2	0.036	10.16	19.3	0.86
TS2100V/H-121Y	120	4.1	53.5	0.039	10.16	19.3	0.86
TS2100V/H-151Y	150	3.9	63.8	0.043	10.16	19.3	0.86
TS2100V/H-181Y	180	3.7	73.3	0.048	10.16	19.3	0.86
TS2100V/H-221Y	220	3.5	85.1	0.053	10.16	19.3	0.86
TS2100V/H-271Y	270	2.7	124.2	0.093	9.4	18.8	0.686
TS2100V/H-331Y	330	2.5	145.1	0.103	9.4	18.8	0.686
TS2100V/H-391Y	390	2.4	165.4	0.112	9.4	18.8	0.686
TS2100V/H-471Y	470	2.3	190.1	0.124	9.65	19.3	0.686
TS2100V/H-561Y	560	2.2	217.9	0.134	9.65	19.3	0.686
TS2100V/H-681Y	680	2.1	251.9	0.147	9.65	19.3	0.686
TS2100V/H-821Y	820	1.6	361.6	0.257	9.4	19.05	0.56
TS2100V/H-102Y	1000	1.5	421.5	0.284	9.4	19.05	0.56

PHYSICAL CHARACTERISTICS: WINDING:



- Rated Current is based on an Irms temperature rise of 20 °C
- Inductance tolerance: 1.0-8.2uH ± 20%, 10-1000uH ± 15%
- Rated current to cause 30 °C temperature rise

HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TS2200 SERIES

FEATURES:

- Low core loss
- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Operating temperature: -55°C to +125°C

APPLICATIONS:

- Switch mode power supplies
- DC/DC converter
- Output chokes
- EMI filters

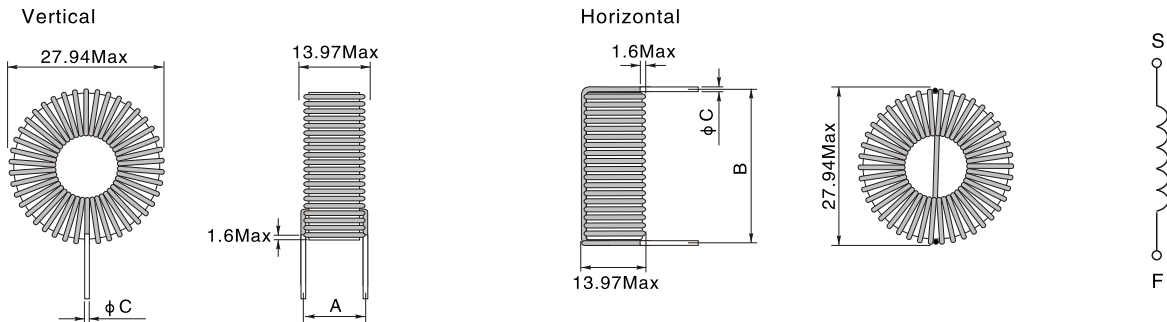


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) 10KHz,0.1V	Rated current Idc (A)	Inductance L1dc(μH) 10KHz,0.1V	DCR Max. (Ω).	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TS2200V/H-1R0Y	1.0	26.1	0.8	0.002	11.94	26.67	1.35
TS2200V/H-1R8Y	1.8	22.6	1.4	0.002	11.94	26.67	1.35
TS2200V/H-2R7Y	2.7	20.3	1.9	0.003	11.94	26.67	1.35
TS2200V/H-3R9Y	3.9	18.5	2.7	0.004	11.94	26.67	1.35
TS2200V/H-4R7Y	4.7	17.1	3.1	0.004	11.94	26.67	1.35
TS2200V/H-6R8Y	6.8	16.0	4.4	0.005	11.94	26.67	1.35
TS2200V/H-8R2Y	8.2	15.1	5.1	0.005	11.94	26.67	1.35
TS2200V/H-100Y	10	14.3	6.0	0.006	11.94	26.67	1.35
TS2200V/H-120Y	12	14.2	6.9	0.006	11.94	26.67	1.35
TS2200V/H-150Y	15	13.6	8.3	0.007	11.94	26.67	1.35
TS2200V/H-180Y	18	13.1	9.7	0.007	11.94	26.67	1.35
TS2200V/H-220Y	22	12.6	11.5	0.008	11.94	26.67	1.35
TS2200V/H-270Y	27	11.8	13.5	0.009	11.94	26.67	1.35
TS2200V/H-330Y	33	11.1	15.7	0.010	11.94	26.67	1.35
TS2200V/H-390Y	39	10.8	18.1	0.011	11.94	26.67	1.35
TS2200V/H-470Y	47	10.3	20.9	0.012	11.94	26.67	1.35
TS2200V/H-560Y	56	9.8	23.9	0.013	11.94	26.67	1.35
TS2200V/H-680Y	68	7.6	33.9	0.022	11.43	26.16	1.067
TS2200V/H-820Y	82	7.1	39.0	0.024	11.43	26.16	1.067
TS2200V/H-101Y	100	6.8	45.6	0.027	11.43	26.16	1.067
TS2200V/H-121Y	120	5.1	63.4	0.047	10.92	25.65	0.86
TS2200V/H-151Y	150	4.9	76.0	0.052	10.92	25.65	0.86
TS2200V/H-181Y	180	4.7	88.5	0.057	10.92	25.65	0.86
TS2200V/H-221Y	220	4.4	103.1	0.063	10.92	25.65	0.86
TS2200V/H-271Y	270	4.2	121.1	0.070	10.92	25.65	0.86
TS2200V/H-331Y	330	4.0	141.9	0.077	10.92	25.65	0.86
TS2200V/H-391Y	390	3.8	161.2	0.084	10.92	25.65	0.86
TS2200V/H-471Y	470	3.7	185.7	0.092	10.92	25.65	0.86
TS2200V/H-561Y	560	3.5	212.0	0.101	10.92	25.65	0.86
TS2200V/H-681Y	680	2.7	307.6	0.176	11.94	25.15	0.686
TS2200V/H-821Y	820	2.5	355.5	0.194	11.94	25.15	0.686
TS2200V/H-102Y	1000	2.4	412.5	0.216	11.94	25.15	0.686

PHYSICAL CHARACTERISTICS:

WINDING:



- Rated Current is based on an Irms temperature rise of 20 °C
- Inductance tolerance: 1.0-8.2uH ± 20%, 10-1000uH ± 15%
- Rated current to cause 30 °C temperature rise

HIGH TEMPERATURE, HIGH CURRENT TOROID INDUCTORS

TS2300 SERIES

FEATURES:

- Low core loss
- Low magnetic radiation
- High current capacity
- Horizontal or vertical mount available
- Operating temperature: -55°C to +125°C

APPLICATIONS:

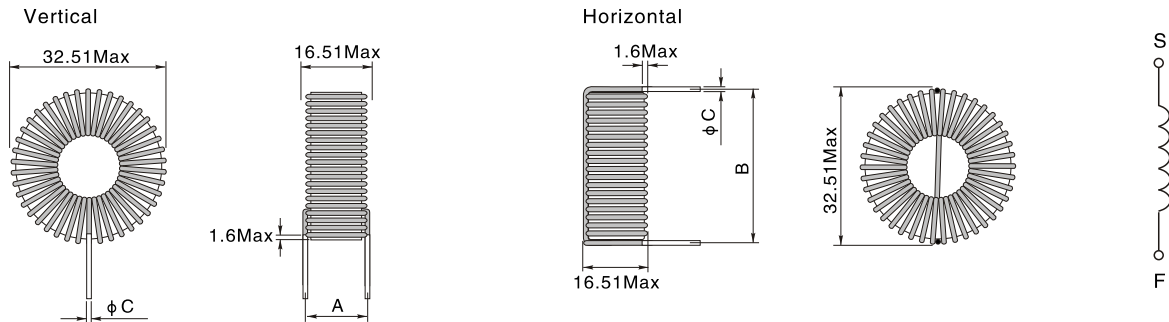
- Switch mode power supplies
- DC/DC converter
- Output chokes
- EMI filters



ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) 10KHz,0.1V	Rated current Idc (A)	Inductance Lidc(μH) 10KHz,0.1V	DCR Max. (Ω)	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C
TS2300V/H-1R5Y	1.5	34.0	1.1	0.001	15.0	30.74	1.68
TS2300V/H-2R7Y	2.7	29.4	1.9	0.002	15.0	30.74	1.68
TS2300V/H-3R9Y	3.9	26.3	2.6	0.002	15.0	30.74	1.68
TS2300V/H-5R6Y	5.6	24.0	3.5	0.003	15.0	30.74	1.68
TS2300V/H-8R2Y	8.2	22.3	4.9	0.003	15.0	30.74	1.68
TS2300V/H-100Y	10	20.8	5.8	0.004	15.0	30.74	1.68
TS2300V/H-120Y	12	19.6	6.7	0.004	15.0	30.74	1.68
TS2300V/H-150Y	15	18.6	8.0	0.005	15.0	30.74	1.68
TS2300V/H-180Y	18	18.5	9.0	0.005	15.0	30.74	1.68
TS2300V/H-220Y	22	17.7	10.6	0.005	15.0	30.74	1.68
TS2300V/H-270Y	27	17.0	12.6	0.006	15.0	30.74	1.68
TS2300V/H-330Y	33	13.0	17.9	0.010	14.22	30.0	1.35
TS2300V/H-390Y	39	12.2	20.1	0.011	14.22	30.0	1.35
TS2300V/H-470Y	47	11.8	23.7	0.012	14.22	30.0	1.35
TS2300V/H-560Y	56	8.9	31.9	0.020	13.72	29.5	1.067
TS2300V/H-680Y	68	8.5	37.4	0.023	13.72	29.5	1.067
TS2300V/H-820Y	82	8.1	43.7	0.025	13.72	29.5	1.067
TS2300V/H-101Y	100	7.8	51.7	0.027	13.72	29.5	1.067
TS2300V/H-121Y	120	7.4	59.3	0.030	13.72	29.5	1.067
TS2300V/H-151Y	150	7.0	71.1	0.033	13.72	29.5	1.067
TS2300V/H-181Y	180	6.7	82.1	0.037	13.72	29.5	1.067
TS2300V/H-221Y	220	5.1	116.6	0.063	13.21	29.0	0.864
TS2300V/H-271Y	270	4.8	137.7	0.070	13.21	29.0	0.864
TS2300V/H-331Y	330	4.6	160.8	0.079	13.21	29.0	0.864
TS2300V/H-391Y	390	4.4	183.6	0.085	13.21	29.0	0.864
TS2300V/H-471Y	470	4.2	212.5	0.094	13.21	29.0	0.864
TS2300V/H-561Y	560	4.0	243.6	0.103	13.21	29.0	0.864
TS2300V/H-681Y	680	3.8	283.0	0.113	13.21	29.0	0.864
TS2300V/H-821Y	820	3.6	327.4	0.123	13.21	29.0	0.864
TS2300V/H-102Y	1000	3.5	378.9	0.137	13.21	29.0	0.864

PHYSICAL CHARACTERISTICS: WINDING:



- Rated Current is based on an Irms temperature rise of 20 °C
- Inductance tolerance: 1.0-8.2uH ± 20%, 10-1000uH ± 15%
- Rated current to cause 30 °C temperature rise

TOROIDAL SURFACE MOUNT POWER INDUCTORS

STC0718 SERIES



FEATURES:

- RoHS compliant
- Up to 3A I_{dc}
- Low R_{dc}
- Small footprint
- Ultra-low profile

APPLICATIONS:

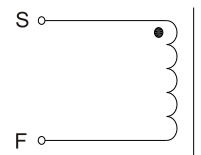
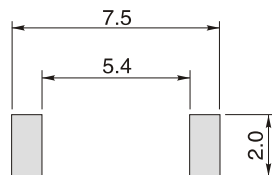
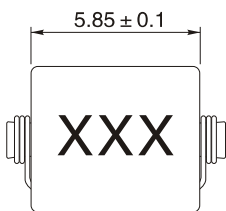
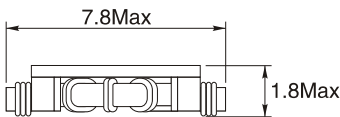
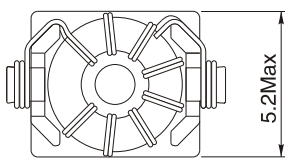
- Power applications with restricted PCB space and height, such as handheld devices, DC-DC converters and notebook computers

ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance (uH) ± 20%	I _{rms} (A)Max	I _{sat} (A)Typ	DCR (mΩ)Max
STC0718-R42M	0.42	3.00	5.69	24
STC0718-R75M	0.75	2.70	4.55	30
STC0718-1R2M	1.2	1.70	3.36	65
STC0718-1R7M	1.7	1.55	2.71	73
STC0718-2R3M	2.3	1.40	2.35	86
STC0718-3R3M	3.3	1.35	1.79	98
STC0718-4R7M	4.7	1.10	1.66	130
STC0718-6R8M	6.8	0.95	1.30	150
STC0718-8R5M	8.5	0.85	1.15	167
STC0718-100M	10	0.75	1.04	185
STC0718-150M	15	0.60	0.85	300
STC0718-220M	22	0.50	0.74	350
STC0718-330M	33	0.42	0.59	600
STC0718-470M	47	0.35	0.48	710
STC0718-680M	68	0.30	0.41	850
STC0718-820M	82	0.27	0.37	1250
STC0718-101M	100	0.24	0.34	1320

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

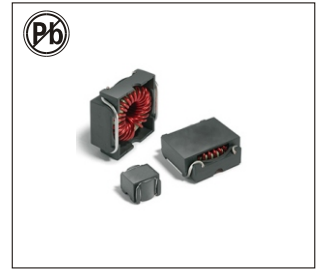
Dimensions(mm)



Note:

- Test frequency: 100KHz,0.1V
- Testing Instrument : L:HP4284A, WK3260B, WK3261A
- All test data is referenced to 25°C ambient
- I_{dc}: DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat}: DC current (A) that will cause L_o to drop approximately 25%
- Operating temperature range -40°C to +125°C (Including temperature rise 40°C Max)
- Storage temperature range -40°C to +85°C
- UL 94V-0 packaging materials
- J-STD-020D reflow
- Custom inductance values available

SMD TOROID POWER INDUCTORS STR SERIES



FEATURES:

- Toroid winding eliminates stray electromagnetic emissions
- Current ratings up to 8 A
- High current, with ratings up to 12.2 A
- Core material: Powdered iron
- RoHS compliant
- Operating temperature: -40°C to +85°C(Including self temperature rise)

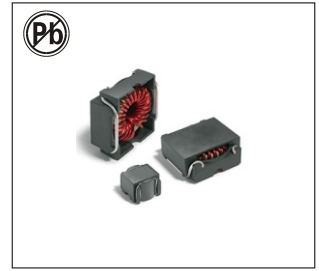
ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Inductance (uH) ± 20% 100KHz,0.1V	SRF (MHz)typ.	DCR (mΩ).	Isat(A)			Irms(A)	
				10%drop	20%drop	30%drop	20 °C rise	40 °C rise
Standard series								
STR20-1R1M	1.1	130	16.0	3.2	4.8	6.7	4.7	6.1
STR38-3R8M	3.8	61	9.3	4.0	6.1	8.2	6.5	8.5
STR30-5R2M	5.2	47	24.2	2.8	4.2	5.8	4.2	5.7
STR20-7R0M	7.0	37	95.0	1.2	1.8	2.5	1.8	2.2
STR38-7R5M	7.5	50	22.8	2.7	4.2	5.8	4.4	6.5
STR44-7R9M	7.9	26	16.2	3.5	5.4	7.3	5.6	7.5
STR30-120M	12	23.9	54.7	1.9	2.8	3.7	2.5	3.3
STR44-140M	14	15.6	23.6	2.8	4.1	5.7	4.2	5.7
STR50-160M	16	14.3	19.7	2.8	4.2	5.8	5.1	7.1
STR38-220M	22	18.1	63	1.5	2.3	3.1	3.7	3.8
STR20-230M	23	13.5	320	0.6	1.0	1.3	0.71	1.0
STR50-260M	26	11.2	32	2.3	3.4	4.6	4.3	6.0
STR30-350M	35	11.0	166	1.1	1.6	2.2	1.3	1.6
STR44-410M	41	8.3	85	1.6	2.3	3.1	2.3	3.1
STR38-730M	73	10.8	290	0.81	1.3	1.7	1.1	1.5
STR50-730M	73	4.56	133	1.4	2.0	2.7	2.6	3.5
STR30-171M	170	3.84	640	0.44	0.68	0.95	0.7	0.88
STR38-291M	290	2.87	657	0.41	0.64	0.9	0.7	1.0
STR50-561M	560	1.54	550	0.37	0.59	0.81	0.7	0.9
STR38-671M	670	1.38	1200	0.26	0.4	0.55	0.48	0.65
STR44-112M	1100	1.35	1908	0.25	0.41	0.57	0.57	0.63
STR50-202M	2000	1.35	1932	0.18	0.29	0.41	0.56	0.7
High current series								
STR44H-2R8M	2.8	74	4.6	5.8	8.8	12.2	9.7	13.6
STR44H-4R2M	4.2	61	6.6	5.0	7.8	10.9	8.8	11.8
STR50H-6R5M	6.5	27.3	7.2	4.6	6.7	9.1	8.6	11.7
STR50H-8R4M	8.4	22.8	8.5	4.3	6.4	8.5	7.1	9.8
STR68H-110M	11	25.9	8.2	4.8	7.2	9.9	8.3	11.2
STR68H-180M	18	12.0	12.5	3.9	5.7	7.7	6.8	9.2

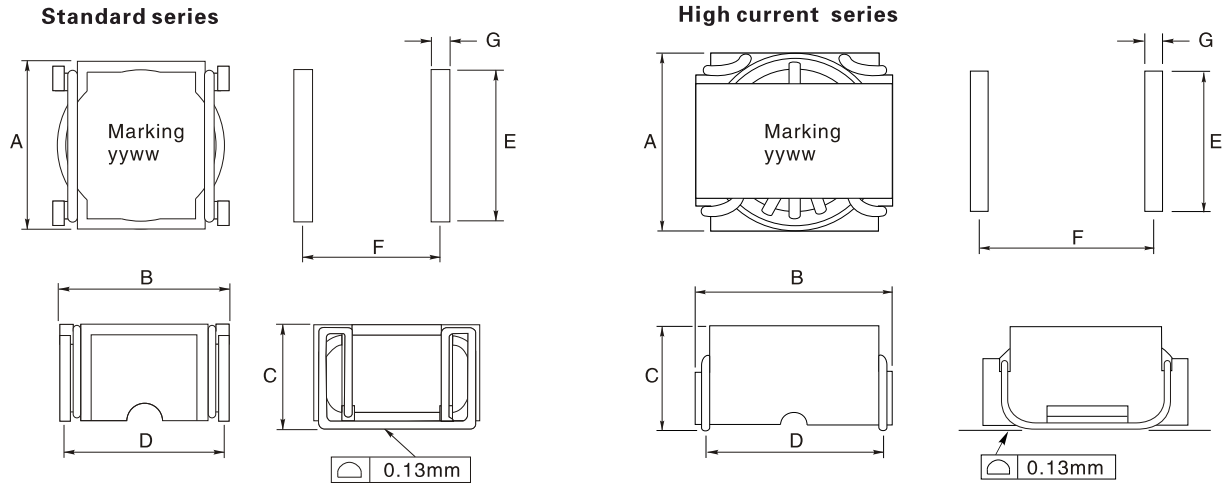
NOTES:

- Electrical specifications at 25°C
- Inductance tested at 100 kHz, 0.1 Vrms on HP 4192A
- SRF measured on HP 8753ES network analyzer
- Isat: DC current that causes the specified inductance drop from its value without current.
- Irms: Current that causes the specified temperature rise from 25°C ambient
- Ambient temperature -40°C to +85°C
- Maximum part temperature: The part temperature should not exceed +85°C (ambient + self-heating)
- Packaging: -40°C to +80°C

SMD TOROID POWER INDUCTORS STR SERIES



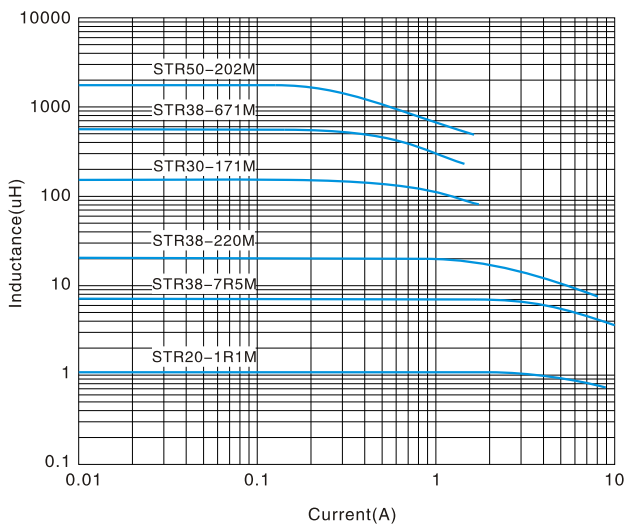
PHYSICAL CHARACTERISTICS:



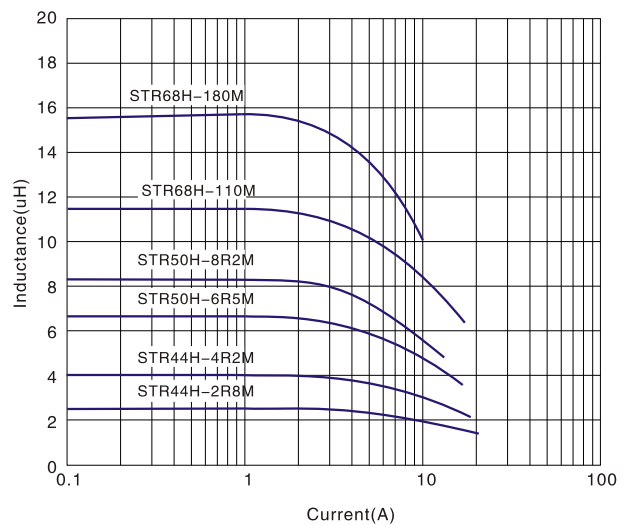
Part No.	A(Max)	B(Max)	C(Max)	D(±0.76)	E(±0.13)	F(±0.13)	G
STR20	8.64	8.64	7.0	6.6	7.62	6.86	1.52
STR30	11.05	11.18	9.5	8.89	10.16	9.14	1.52
STR38	14.22	14.35	9.5	11.43	13.21	11.68	1.52
STR44	15.0	15.62	10.5	12.7	13.97	12.95	1.52
STR50	17.02	17.78	10.5	14.73	15.75	14.99	1.52
STR44H	16.9	16.9	10.5	14.22	12.45	14.5	2.03
STR50H	18.8	18.8	10.5	16.0	14.22	16.26	2.03
STR68H	23.9	23.9	10.5	20.83	17.8	21.08	2.03

INDUCTANCE VS CURRENT

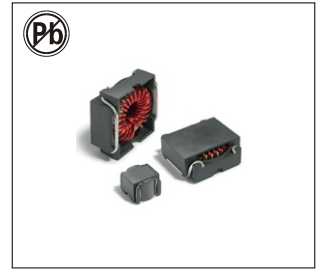
Standard series



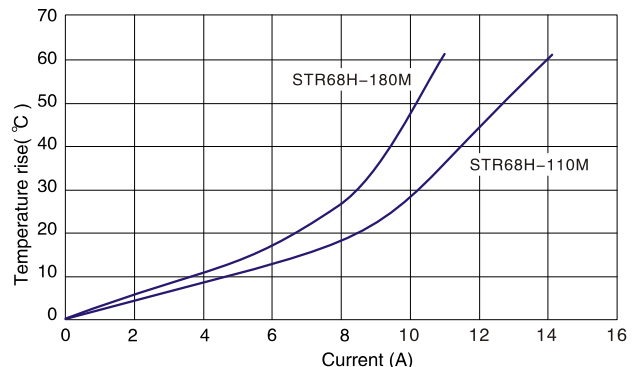
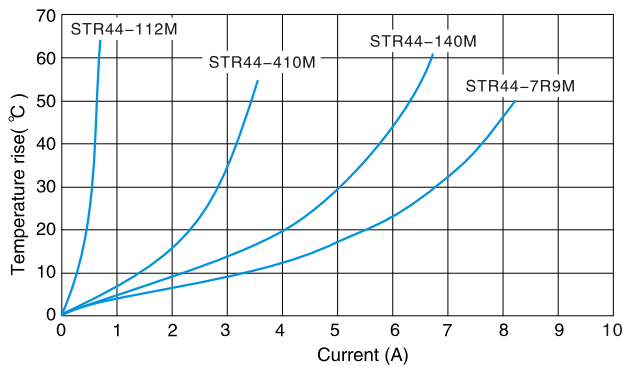
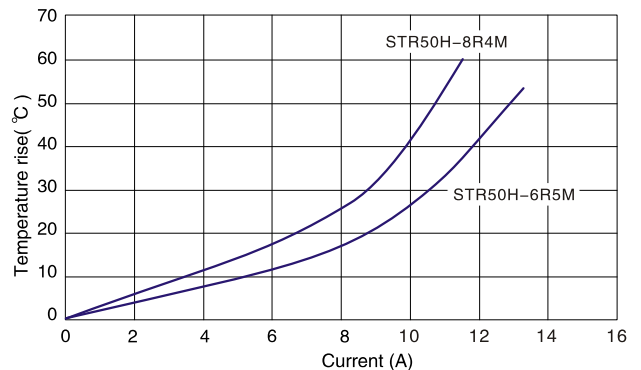
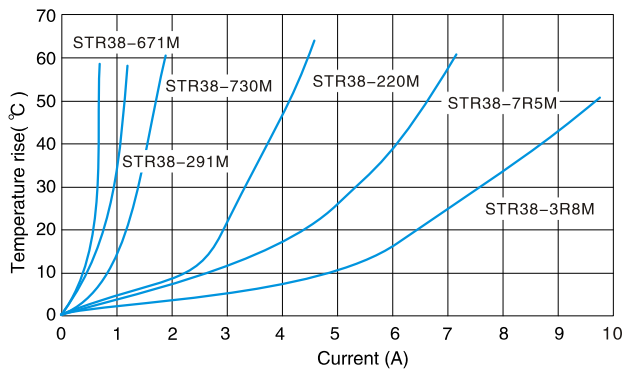
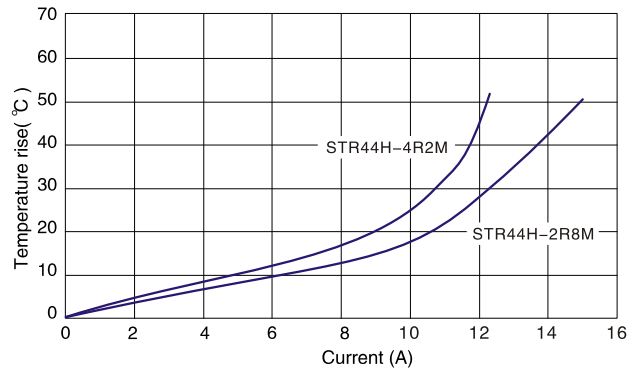
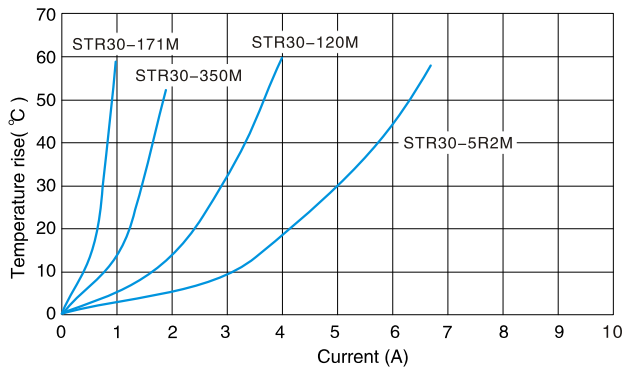
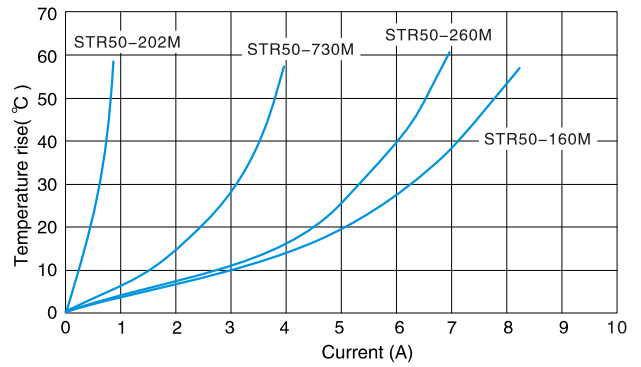
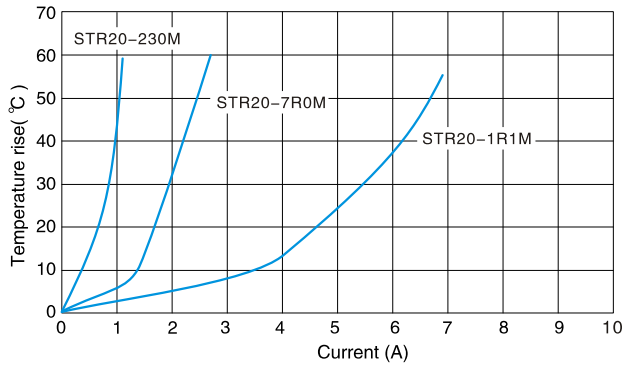
High current series



SMD TOROID POWER INDUCTORS STR SERIES



TEMPERATURE RISE VS CURRENT:



SURFACE-MOUNT TOROID CHOKES

STR30 SERIES



FEATURES:

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

COMMON APPLICATIONS:

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

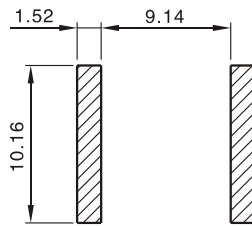
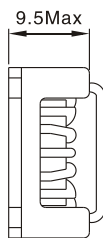
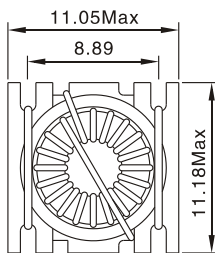
ELECTRICAL CHARACTERISTICS:

Part Number	L μH 100KHz	SRF MHz TYP	DCR (mΩ) Max	IDC (A) Max
STR30-8/90-1R8M	1.8	140	12.0	12
STR30-8/90-3R3M	3.3	110	19.9	10
STR30-8/90-6R8M	6.8	55	47.2	6.5
STR30-8/90-220M	22	15	166	3.5
STR30-8/90-101M	100	5.0	640	1.6
STR30-18-2R7M	2.7	125	12.0	7.4
STR30-18-5R2M	5.2	102	19.9	5.4
STR30-18-120M	12	52	47.2	3.5
STR30-18-350M	35	12	166	2.0
STR30-18-171M	170	4.0	640	0.95
STR30-52-3R6M	3.6	150	12.0	5.0
STR30-52-6R8M	6.8	110	19.9	3.7
STR30-52-150M	15	45	47.2	2.5
STR30-52-470M	47	14	166	1.4
STR30-52-221M	220	4.2	640	0.64
STR30-M125-6R0M	6.0	95	12.0	4.6
STR30-M125-120M	12	75	19.9	3.4
STR30-M125-220M	22	50	47.2	2.4
STR30-M125-820M	82	10	166	1.3
STR30-M125-391M	390	3	640	0.60

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION:

PHYSICAL CHARACTERISTICS:



LAND PATTERNS

Winding



- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SURFACE-MOUNT TOROID CHOKES

STR38 SERIES



FEATURES:

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

COMMON APPLICATIONS:

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

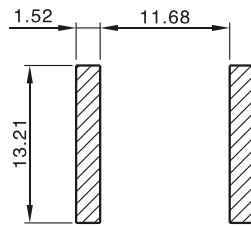
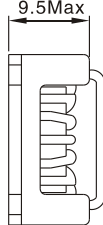
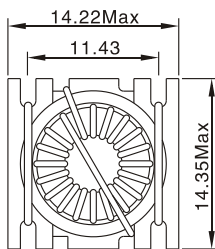
ELECTRICAL CHARACTERISTICS:

Part Number	L μH 100KHz	SRF MHz TYP	DCR (mΩ) Max	IDC (A) Max
STR38-8/90-1R5M	1.5	133	9.3	18
STR38-8/90-3R3M	3.3	73	18.7	12
STR38-8/90-8R2M	8.2	24	63	7.5
STR38-8/90-270M	27	12	290	4.0
STR38-8/90-101M	100	4.0	657	2.1
STR38-18-3R8M	3.8	133	9.3	8.8
STR38-18-7R5M	7.5	73	18.7	5.8
STR38-18-220M	22	34	63	3.5
STR38-18-730M	73	5.0	290	2.0
STR38-18-291M	290	2.0	657	0.98
STR38-52-4R7M	4.7	133	9.3	6.5
STR38-52-100M	10	62	18.7	4.4
STR38-52-330M	33	25	63	2.4
STR38-52-101M	100	5.0	290	1.4
STR38-52-391M	390	133	657	0.71
STR38-M125-6R8M	6.8	58	9.3	6.2
STR38-M125-150M	15	18	18.7	4.2
STR38-M125-390M	39	4.0	63	2.6
STR38-M126-121M	120	1.2	290	1.6
STR38-M127-471M	470	1.8	657	0.74

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION:

PHYSICAL CHARACTERISTICS:



LAND PATTERNS

Winding



- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SURFACE-MOUNT TOROID CHOKES

STR44 SERIES



FEATURES:

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

COMMON APPLICATIONS:

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

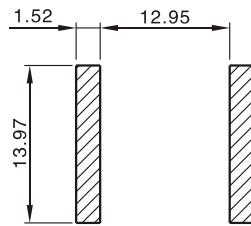
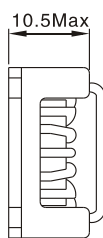
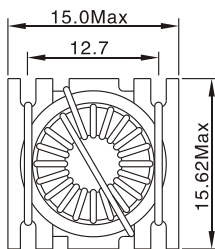
ELECTRICAL CHARACTERISTICS:

Part Number	L μ H 100KHz	SRF MHz TYP	DCR (mΩ) Max	IDC (A) Max
STR44-8/90-5R6M	5.6	65	16.2	11.0
STR44-8/90-100M	10.0	40	23.6	9.0
STR44-8/90-150M	15.0	25	39.0	7.4
STR44-8/90-270M	27.0	12	85.0	5.4
STR44-8/90-681M	680	1.4	1908	1.0
STR44-18-7R9M	7.9	49	16.2	6.6
STR44-18-140M	14.0	33	23.6	5.2
STR44-18-220M	22.0	23	39.0	4.1
STR44-18-410M	41.0	9.5	85.0	3.0
STR44-18-112M	1100	12	1908	0.58
STR44-52-120M	12	62	16.2	4.5
STR44-52-180M	18	35	23.6	3.5
STR44-52-270M	27	26	39.0	2.8
STR44-52-560M	56	9.0	85.0	2.0
STR44-52-152M	1500	0.85	1908	0.39
STR44-M125-180M	18	49	16.2	4.3
STR44-M125-270M	27	33	23.6	3.4
STR44-M125-470M	47	23	39.0	2.6
STR44-M125-101M	100	7.5	85.0	1.8
STR44-M125-222M	2200	0.60	1908	0.38

Note: 1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION:

PHYSICAL CHARACTERISTICS:



LAND PATTERNS

Winding



- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

SURFACE-MOUNT TOROID CHOKES

STR50 SERIES



FEATURES:

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

COMMON APPLICATIONS:

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

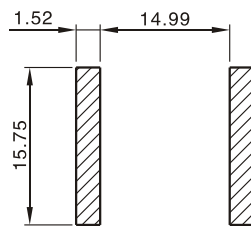
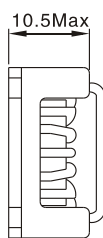
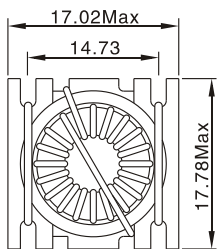
ELECTRICAL CHARACTERISTICS:

Part Number	L μ H 100KHz	SRF MHz TYP	DCR (mΩ) Max	IDC (A) Max
STR50-8/90-100M	10	35	19.7	9.0
STR50-8/90-150M	15	27	32	7.5
STR50-8/90-470M	47	7.0	133	4.3
STR50-8/90-101M	100	3.8	220	2.9
STR50-8/90-152M	1500	0.72	1932	0.76
STR50-18-160M	16	24	19.7	5.4
STR50-18-260M	26	11	32	4.3
STR50-18-730M	73	4.5	133	2.5
STR50-18-151M	150	2.6	220	1.8
STR50-18-202M	2000	0.60	1932	0.50
STR50-52-180M	18	35	19.7	4.4
STR50-52-270M	27	27	32	3.6
STR50-52-101M	100	5.2	133	1.9
STR50-52-221M	220	2.2	220	1.3
STR50-52-272M	2700	0.50	1932	0.37
STR50-M125-330M	33	19	19.7	3.5
STR50-M125-470M	47	16	32	2.8
STR50-M125-151M	150	3.6	133	1.6
STR50-M125-331M	330	2.0	220	1.2
STR50-M125-472M	4700	0.45	1932	0.31

Note:1. K= ± 10%,M= ± 20%,N= ± 30%

TECHNICAL INFORMATION:

PHYSICAL CHARACTERISTICS:



LAND PATTERNS

Winding



- IDC Max:Determined when superimposed
- Inductance test: HP4284A 10KHz 0.1V
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat:260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.



High Current SMD Power Inductors

STR8052B Series

Features

- ◆ Current rating up to 22.7 A
- ◆ Toroidal core
- ◆ RoHS compliant*

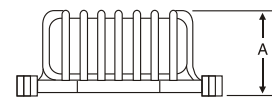
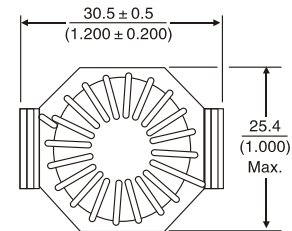
Applications

- ◆ Input/output of DC/DC converters
- ◆ Industrial electronics
- ◆ Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car radios

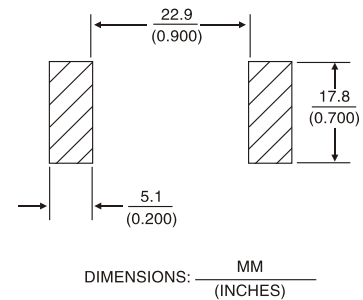
Electrical Specifications

Part No	Inductance 1kHz		DCR Max. (mΩ)	Idc (A)	Dim. A Max. mm/(in.)
	(μH)	Tol.(%)			
STR8052B-1R0M	1.0	±20	2	22.7	14.48/(0.57)
STR8052B-1R2M	1.2	±20	2	20.3	14.48/(0.57)
STR8052B-1R5M	1.5	±20	2	20.3	14.48/(0.57)
STR8052B-1R8M	1.8	±20	3	18.5	14.48/(0.57)
STR8052B-2R2M	2.2	±20	3	17.2	14.48/(0.57)
STR8052B-2R7M	2.7	±20	4	16.0	14.48/(0.57)
STR8052B-3R3M	3.3	±20	4	16.0	14.48/(0.57)
STR8052B-3R9M	3.9	±20	4	15.1	14.48/(0.57)
STR8052B-4R7M	4.7	±20	4	14.4	14.48/(0.57)
STR8052B-5R6M	5.6	±20	5	13.7	14.48/(0.57)
STR8052B-6R8M	6.8	±20	5	13.1	14.48/(0.57)
STR8052B-8R2M	8.2	±20	6	12.6	14.48/(0.57)
STR8052B-100K	10	±10	7	11.7	14.48/(0.57)
STR8052B-120K	12	±10	7	11.3	14.48/(0.57)
STR8052B-150K	15	±10	8	10.7	14.48/(0.57)
STR8052B-180K	18	±10	9	10.2	14.48/(0.57)
STR8052B-220K	22	±10	10	9.7	14.48/(0.57)
STR8052B-270K	27	±10	14	8.2	13.72/(0.54)
STR8052B-330K	33	±10	19	7.0	13.21/(0.52)
STR8052B-390K	39	±10	20	6.8	15.75/(0.62)
STR8052B-470K	47	±10	22	6.5	15.75/(0.62)
STR8052B-560K	56	±10	24	6.2	15.75/(0.62)
STR8052B-680K	68	±10	27	5.9	15.75/(0.62)
STR8052B-820K	82	±10	29	5.6	15.75/(0.62)
STR8052B-101K	100	±10	32	5.4	15.75/(0.62)
STR8052B-121K	120	±10	35	5.1	15.75/(0.62)
STR8052B-151K	150	±10	49	4.3	14.99/(0.59)
STR8052B-181K	180	±10	66	3.7	13.46/(0.53)
STR8052B-221K	220	±10	74	3.5	15.24/(0.60)
STR8052B-271K	270	±10	82	3.4	15.24/(0.60)
STR8052B-331K	330	±10	90	3.2	15.24/(0.60)
STR8052B-391K	390	±10	98	3.1	15.24/(0.60)
STR8052B-471K	470	±10	133	2.6	14.48/(0.57)
STR8052B-561K	560	±10	146	2.5	14.48/(0.57)
STR8052B-681K	680	±10	202	2.1	13.72/(0.54)
STR8052B-821K	820	±10	221	2.0	15.24/(0.60)
STR8052B-102K	1000	±10	244	1.9	15.24/(0.60)

Product Dimensions



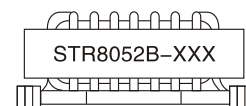
Recommended Layout



Electrical Schematic



Typical Part Marking



General Specifications

Test Voltage 0.1V Reflow Soldering 245°C; 5 seconds Operating Temperature, -55°C to +105°C (Temperature rise included) Storage Temperature, -55°C to +105°C Resistance to Soldering Heat 260°C, 10 sec.max.

Materials

Core Iron Wire Enameled copper Adhesive Epoxy resin Terminal Sn/Ag/Cu Rated Current See "Inductance vs. Current" table Temperature Rise 30°C typical at Idc Packing 77 pcs.per box

* RoHS Directive 2002/95/EC Jan 27 2003 Including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

High Current SMD Power Inductors STR8052B Series

Inductance vs.Current

L (μH)	Idc (A) to decrease L by 10%	Idc (A) to decrease L by 20%	Idc (A) to decrease L by 30%	Idc (A) to decrease L by 40%	Idc (A) to decrease L by 50%
1	17.0	22.7	37.0	50.0	66.0
1.2	13.5	21.2	30.0	40.0	53.0
1.5	13.2	21.0	29.9	39.8	52.8
1.8	11.1	17.9	25.0	33.5	44.5
2.2	9.50	15.4	21.9	28.6	38.1
2.7	8.30	13.5	18.8	25.1	33.5
3.3	8.30	13.4	18.8	25.0	33.4
3.9	7.40	11.9	16.6	22.4	29.8
4.7	6.70	10.7	15.0	20.1	26.8
5.6	6.10	9.70	13.6	18.2	24.4
6.8	5.55	8.90	12.5	16.7	22.3
8.2	5.15	8.25	11.5	15.5	20.6
10	4.45	7.05	9.95	13.4	17.8
12	4.15	6.70	9.35	12.6	16.7
15	3.70	5.95	8.30	11.2	14.9
18	3.35	5.35	7.50	10.1	13.4
22	2.80	4.84	6.80	9.15	12.1
27	2.65	4.17	5.97	8.02	10.7
33	2.40	3.80	5.35	7.25	9.55
39	2.20	3.53	5.00	6.70	8.90
47	2.05	3.25	4.54	6.05	8.10
56	1.85	2.98	4.15	5.55	7.50
68	1.67	2.67	3.75	5.02	6.70
82	1.51	2.43	3.40	4.45	6.08
100	1.39	2.23	3.11	4.18	5.58
120	1.26	2.02	2.82	3.78	5.05
150	1.13	1.81	2.54	3.40	4.54
180	1.03	1.64	2.30	3.08	4.12
220	0.93	1.45	2.08	2.79	3.70
270	0.83	1.34	1.86	2.51	3.35
330	0.76	1.21	1.70	2.28	3.04
390	0.69	1.11	1.56	2.07	2.79
470	0.64	1.02	1.42	1.91	2.55
560	0.58	0.93	1.30	1.74	2.33
680	0.53	0.84	1.17	1.58	2.11
820	0.48	0.77	1.07	1.44	1.93
1000	0.43	0.69	0.97	1.30	1.74

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.



High Current SMD Power Inductors

STR8052C Series

Features

- ◆ Current rating up to 25.4 A
- ◆ Toroidal core
- ◆ RoHS compliant*

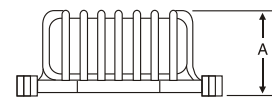
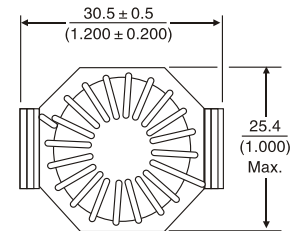
Applications

- ◆ Input/output of DC/DC converters
- ◆ Industrial electronics
- ◆ Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car radios

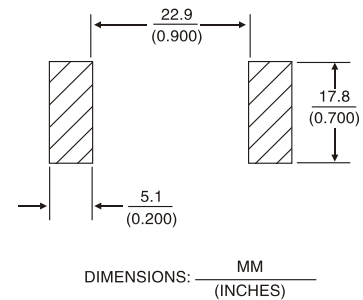
Electrical Specifications

Part No	Inductance 1kHz		DCR Max. (mΩ)	Idc (A)	Dim. A Max. mm/(in.)
	(μH)	Tol.(%)			
STR8052C-1R0M	1.0	±20	2	25.4	20.83/(0.82)
STR8052C-1R2M	1.2	±20	2	25.4	20.83/(0.82)
STR8052C-1R5M	1.5	±20	3	22.0	20.83/(0.82)
STR8052C-1R8M	1.8	±20	3	22.0	20.83/(0.82)
STR8052C-2R2M	2.2	±20	3	19.7	20.83/(0.82)
STR8052C-2R7M	2.7	±20	3	19.7	20.83/(0.82)
STR8052C-3R3M	3.3	±20	4	18.0	20.83/(0.82)
STR8052C-3R9M	3.9	±20	4	18.0	20.83/(0.82)
STR8052C-4R7M	4.7	±20	5	16.6	20.83/(0.82)
STR8052C-5R6M	5.6	±20	5	15.6	20.83/(0.82)
STR8052C-6R8M	6.8	±20	6	14.7	20.83/(0.82)
STR8052C-8R2M	8.2	±20	6	14.7	20.83/(0.82)
STR8052C-100K	10	±10	7	13.9	20.83/(0.82)
STR8052C-120K	12	±10	8	12.7	20.83/(0.82)
STR8052C-150K	15	±10	9	12.2	20.83/(0.82)
STR8052C-180K	18	±10	9	11.8	20.83/(0.82)
STR8052C-220K	22	±10	11	11.0	20.83/(0.82)
STR8052C-270K	27	±10	12	10.4	20.83/(0.82)
STR8052C-330K	33	±10	13	10.1	20.83/(0.82)
STR8052C-390K	39	±10	14	9.6	20.83/(0.82)
STR8052C-470K	47	±10	19	8.2	20.07/(0.79)
STR8052C-560K	56	±10	21	7.9	20.07/(0.79)
STR8052C-680K	68	±10	29	6.7	19.56/(0.77)
STR8052C-820K	82	±10	32	6.4	20.10/(0.87)
STR8052C-101K	100	±10	35	6.1	20.10/(0.87)
STR8052C-121K	120	±10	39	5.8	20.10/(0.87)
STR8052C-151K	150	±10	43	5.5	20.10/(0.87)
STR8052C-181K	180	±10	47	5.3	20.08/(0.83)
STR8052C-221K	220	±10	52	5.0	20.08/(0.83)
STR8052C-271K	270	±10	72	4.2	20.32/(0.80)
STR8052C-331K	330	±10	100	3.6	19.81/(0.78)
STR8052C-391K	390	±10	108	3.5	19.81/(0.78)
STR8052C-471K	470	±10	119	3.3	21.59/(0.85)
STR8052C-561K	560	±10	130	3.2	21.59/(0.85)
STR8052C-681K	680	±10	142	3.0	21.59/(0.85)
STR8052C-821K	820	±10	157	2.9	21.59/(0.85)
STR8052C-102K	1000	±10	215	2.5	20.83/(0.82)

Product Dimensions



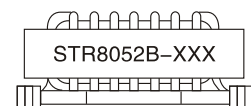
Recommended Layout



Electrical Schematic



Typical Part Marking



General Specifications

Test Voltage 0.1V Reflow Soldering 245°C; 5 seconds Operating Temperature, -55°C to +105°C (Temperature rise included) Storage Temperature, -55°C to +105°C Resistance to Soldering Heat 260°C, 10 sec.max.

Materials

Core Iron Wire Enameled copper Adhesive Epoxy resin Terminal Sn/Ag/Cu Rated Current See "Inductance vs. Current" table Temperature Rise 30°C typical at Idc Packing 77 pcs.per box

* RoHS Directive 2002/95/EC Jan 27 2003 Including Annex Specifications are subject to change without notice. Customers should verify actual device performance in their specific applications.

High Current SMD Power Inductors STR8052C Series

Inductance vs. Current

L (μH)	Idc (A) to decrease L by 10%	Idc (A) to decrease L by 20%	Idc (A) to decrease L by 30%	Idc (A) to decrease L by 40%	Idc (A) to decrease L by 50%
1	15.3	24.5	34.4	45.9	61.3
1.2	17.4	27.9	39.2	52.2	69.7
1.5	15.8	25.3	35.6	47.4	63.3
1.8	14.6	23.4	32.9	43.8	58.5
2.2	13.1	21.0	29.5	39.3	52.5
2.7	11.7	18.7	26.3	35.1	46.9
3.3	15.1	24.2	34.0	45.3	60.5
3.9	9.70	15.5	21.8	29.1	38.9
4.7	8.90	14.3	20.0	26.7	35.7
5.6	8.10	13.0	18.2	24.3	32.4
6.8	7.40	11.9	16.7	22.2	29.6
8.2	6.70	10.7	15.1	20.1	26.8
10	6.10	9.77	13.7	18.3	24.4
12	5.60	8.97	12.6	16.8	22.4
15	4.90	7.85	11.0	14.7	19.6
18	4.60	7.37	10.4	13.8	18.4
22	4.10	6.57	9.23	12.3	16.4
27	3.70	5.93	8.33	11.1	14.8
33	3.35	5.37	7.54	10.1	13.4
39	3.10	4.97	6.98	9.30	12.4
47	2.80	4.49	6.30	8.40	11.2
56	2.55	4.09	5.74	7.65	10.2
68	2.35	3.76	5.29	7.05	9.41
82	2.15	3.44	4.84	6.45	8.61
100	1.92	3.08	4.32	5.76	7.69
120	1.75	2.80	3.94	5.25	7.01
150	1.58	2.53	3.56	4.74	6.33
180	1.43	2.29	3.22	4.29	5.73
220	1.30	2.08	2.93	3.90	5.21
270	1.18	1.89	2.66	3.54	4.73
330	1.11	1.78	2.50	3.33	4.45
390	0.97	1.55	2.18	2.91	3.89
470	0.89	1.43	2.00	2.67	3.57
560	0.81	1.30	1.82	2.43	3.24
680	0.74	1.19	1.67	2.22	2.96
820	0.67	1.07	1.51	2.01	2.68
1000	0.61	0.98	1.37	1.83	2.44

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

SMD HIGH CURRENT TOROID POWER INDUCTORS STRD SERIES



FEATURES:

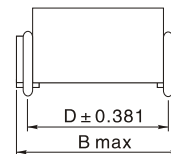
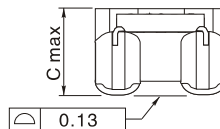
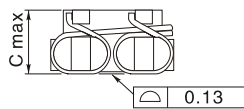
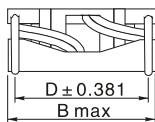
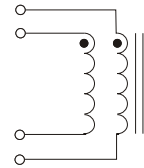
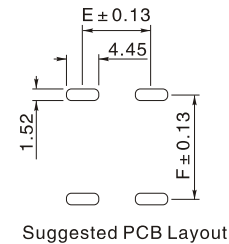
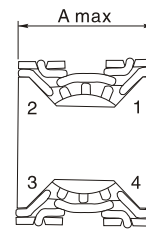
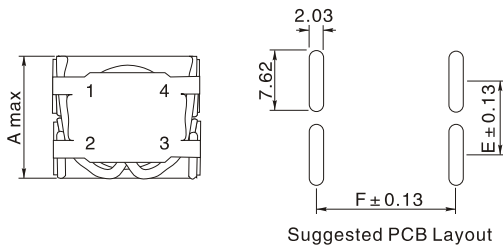
- Toroid winding eliminates stray electromagnetic emissions
- Base material meets flammability requirements of UL 94V-0
- Surface mounting
- Current Rating: up to 23.8Adc
- Frequency Range: up to 1MHz
- RoHS compliant

ELECTRICAL CHARACTERISTICS:@25°C

Part Number	Inductance L0(uH) ± 20% 100KHz,0.1V	Rated current IDC (A)	Inductance Lidc(uH) ± 20% 100KHz,0.1V	DCR (mΩ).	Reference ET (Volt-usec)
STRD37-770M	77	1.1	43.6	309	7.83
STRD44-390M	39.5	2.7	21.9	90.5	6.9
STRD50-6R5M	6.575	6.4	4.025	23	3.135
STRD44H-R88M	0.88	23.8	0.53	3	1
STRD50H-2R1M	2.1	21	1.1	2.5	1.75
STRD68H-4R0M	4	22.4	2.1	3.4	3.25

PHYSICAL CHARACTERISTICS:

WINDING:



Part No.	A(Max)	B(Max)	C(Max)	D(± 0.381)	E(± 0.13)	F(± 0.13)
STRD44H-R88M	18.16	21.97	9.91	10.3	9.14	19.56
STRD50H-2R1M	20.32	23.11	9.91	20.32	11.18	20.57
STRD68H-4R0M	25.4	28.19	9.91	25.4	15.75	25.65
STRD37-770M	14.22	16.38	8.89	13.21	8.64	13.46
STRD44-390M	14.99	18.16	9.91	15.24	9.4	15.49
STRD50-6R5M	17.02	19.56	9.91	16.51	11.3	16.76

NOTES:

- Electrical specifications at 25°C
- Inductance tested at 100 kHz, 0.1 Vrms on HP 4192A
- Operating temperature: -40°C to +130°C(Including self temperature rise)
- Reference values are for an inductor with a 55°C temperature rise. The core loss is 10% of the copper loss at the ET listed and 500kHz.
- Core does not saturate abruptly. The ET and DC current are limited by the desired inductance and temperature rise.
- In high volt-time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. In order to determine the approximate total losses (or temperature rise) for a given application, both copper and core losses should be taken into account.