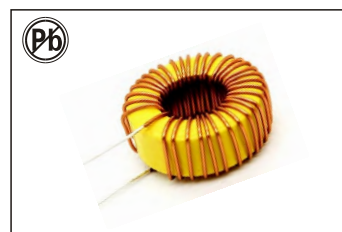


Toroidal choke coils

TR-0.1A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizontal is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

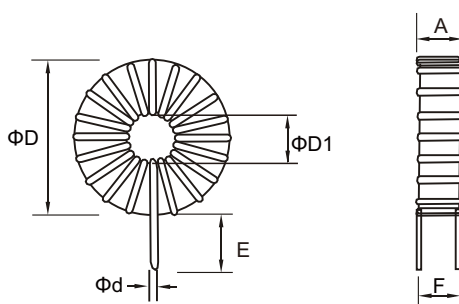
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-0.1A	10	10.0	20	300	2.0	12	4	5	10	0.15	4.5
TR-150M-0.1A	15	15.0	20	370	2.0	12	4	5	10	0.15	4.5
TR-220M-0.1A	22	22.0	20	440	2.0	12	4	5	10	0.15	4.5
TR-330M-0.1A	33	32.9	20	530	2.0	12	4	5	10	0.15	4.5
TR-470M-0.1A	47	46.8	20	640	2.0	12	4	5	10	0.15	4.5
TR-680M-0.1A	68	67.5	20	760	2.0	12	4	5	10	0.15	4.5
TR-101M-0.1A	100	99.3	20	930	2.0	12	4	5	10	0.15	4.5
TR-151M-0.1A	150	148.5	20	1140	2.1	12	4	5	10	0.15	4.5
TR-221M-0.1A	220	216.7	20	1380	2.1	12	4	5	10	0.15	4.5
TR-331M-0.1A	330	324.0	20	1700	2.1	12	4	5	10	0.15	4.5
TR-471M-0.1A	470	458.7	20	2020	2.2	12.5	4.5	5.5	10	0.15	4.5
TR-681M-0.1A	680	656.2	20	2430	2.3	12.5	4.5	5.5	10	0.15	4.5
TR-102M-0.1A	1000	955.0	20	3000	2.4	12.5	4.5	5.5	10	0.15	4.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

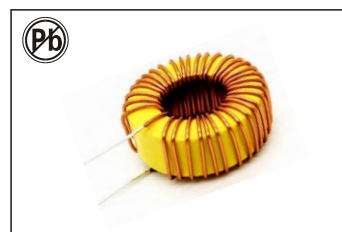
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-0.25A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizontal is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

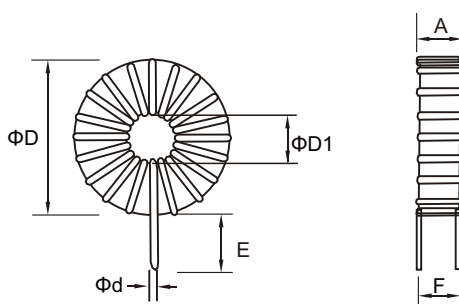
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-0.25A	10	10.0	20	140	2.0	12	4	5	10	0.15	4.5
TR-150M-0.25A	15	14.9	20	150	2.0	12	4	5	10	0.15	4.5
TR-220M-0.25A	22	21.8	20	180	2.1	12	4	5	10	0.15	4.5
TR-330M-0.25A	33	32.6	20	215	2.1	12	4	5	10	0.15	4.5
TR-470M-0.25A	47	46.3	20	260	2.1	12	4	5	10	0.15	4.5
TR-680M-0.25A	68	66.5	20	305	2.2	12	4	5	10	0.15	4.5
TR-101M-0.25A	100	97.0	20	370	2.2	12	4	5	10	0.15	4.5
TR-151M-0.25A	150	143.5	20	455	2.3	12	4	5	10	0.15	4.5
TR-221M-0.25A	220	207.2	20	550	2.3	12.5	4	5	10	0.15	4.5
TR-331M-0.25A	330	303.3	20	675	2.4	12.5	4	5	10	0.15	4.5
TR-471M-0.25A	470	429.6	20	945	3.3	14	4.5	6.5	10	0.15	4.5
TR-681M-0.25A	680	602.5	20	1140	3.5	14	4.5	6.5	10	0.15	4.5
TR-102M-0.25A	1000	849.0	20	1370	3.6	14	4.5	6.5	10	0.15	4.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

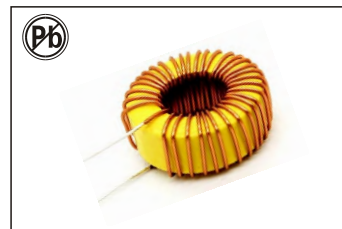
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-0.5A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizontal is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

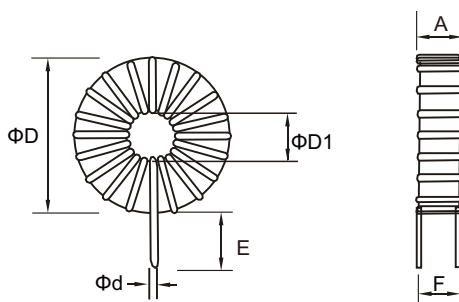
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-0.5A	10	9.9	20	70	2.8	14	5.5	6.5	10	0.32	5
TR-150M-0.5A	15	14.8	20	86	2.9	14	5.5	6.5	10	0.32	5
TR-220M-0.5A	22	21.5	20	105	2.9	14	5.5	6.5	10	0.32	5
TR-330M-0.5A	33	32.0	20	130	3.0	14	5.5	6.5	10	0.32	5
TR-470M-0.5A	47	45.0	20	150	3.0	14	5.5	6.5	10	0.32	5
TR-680M-0.5A	68	64.2	20	185	3.1	14	5.5	6.5	10	0.32	5
TR-101M-0.5A	100	92.5	20	220	3.2	14	5.5	6.5	10	0.32	5
TR-151M-0.5A	150	134.2	20	270	3.4	14	5.5	6.5	10	0.32	5
TR-221M-0.5A	220	203.7	20	340	6.1	19	5.5	6.5	10	0.32	7
TR-331M-0.5A	330	296.7	20	420	6.4	19	5.5	6.5	10	0.32	7
TR-471M-0.5A	470	426.3	20	560	10.0	21.5	7	8	10	0.32	7
TR-681M-0.5A	680	595.7	20	680	10.3	21.5	7	8	10	0.32	10
TR-102M-0.5A	1000	836.0	20	820	10.8	21.5	7	8	10	0.32	10

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

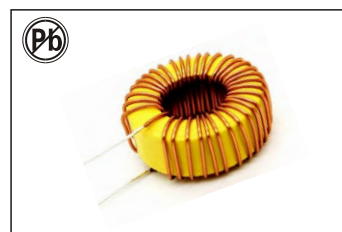
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-1.0A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizonatl is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

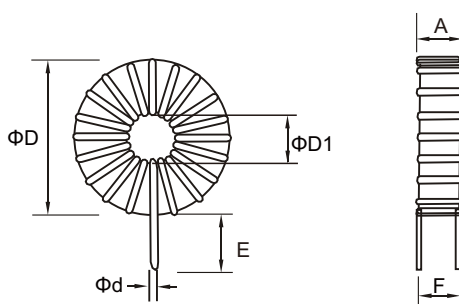
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-1.0A	10	9.6	20	35	3.0	14.5	6	7	10	0.45	5
TR-150M-1.0A	15	14.2	20	44	3.2	14.5	6	7	10	0.45	5
TR-220M-1.0A	22	20.5	20	51	3.3	14.5	6	7	10	0.45	5
TR-330M-1.0A	33	29.8	20	63	3.4	14.5	6	7	10	0.45	5
TR-470M-1.0A	47	41.1	20	75	3.5	14.5	6	7	10	0.45	5
TR-680M-1.0A	68	61.9	20	96	6.2	19.5	6	7	10	0.45	7
TR-101M-1.0A	100	88.2	20	115	6.5	19.5	6	7	10	0.45	7
TR-151M-1.0A	150	133.2	20	158	10.3	22	7.5	8.5	10	0.45	10
TR-221M-1.0A	220	187.4	20	192	10.6	22	7.5	8.5	10	0.45	10
TR-331M-1.0A	330	264.7	20	236	11.2	23	8.5	9.5	10	0.45	10
TR-471M-1.0A	470	417.4	20	325	33.3	30	12.5	13.5	10	0.45	11.5
TR-681M-1.0A	680	579.4	20	393	34.0	31	13.5	14.5	10	0.45	11.5
TR-102M-1.0A	1000	807.0	20	476	35.0	31	13.5	14.5	10	0.45	11.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

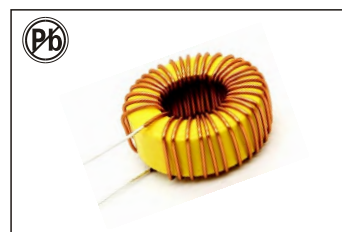
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-2.5A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizontal is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

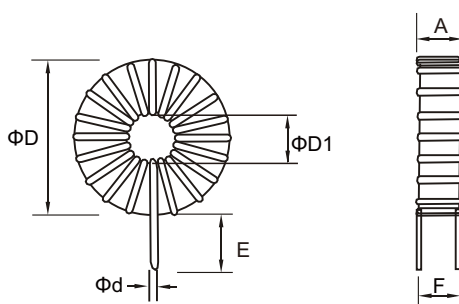
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f=1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-2.5A	10	9.2	20	14.5	6.2	20	6.5	7.5	10	0.75	6.5
TR-150M-2.5A	15	13.2	20	18.5	6.7	20	6.5	7.5	10	0.75	6.5
TR-220M-2.5A	22	19.7	20	24.5	10.2	23	8.5	9.5	10	0.75	9.5
TR-330M-2.5A	33	28.2	20	30.0	10.6	23	8.5	9.5	10	0.75	9.5
TR-470M-2.5A	47	38.3	20	36.0	11.0	23	8.5	9.5	10	0.75	9.5
TR-680M-2.5A	68	51.9	20	43.5	11.6	23	8.5	9.5	10	0.75	9.5
TR-101M-2.5A	100	86.0	20	60.5	34.0	30	13	14	10	0.75	11.5
TR-151M-2.5A	150	122.4	20	74	35.0	30	13	14	10	0.75	11.5
TR-221M-2.5A	220	167.2	20	90	36.5	30	13	14	10	0.75	11.5
TR-331M-2.5A	330	250.0	20	123	49.5	36	13	14	10	0.75	16.5
TR-471M-2.5A	470	372.0	20	167	87.0	45	18	19	10	0.75	21
TR-681M-2.5A	680	201.0	20	200	90.0	45	18	19	10	0.75	21
TR-102M-2.5A	1000	786.0	20	238	170.0	51	21	22	10	0.75	21

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

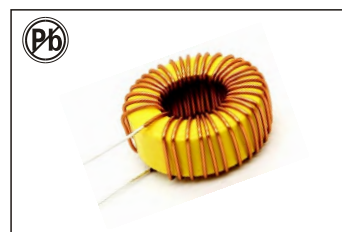
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-5.0A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizontal is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

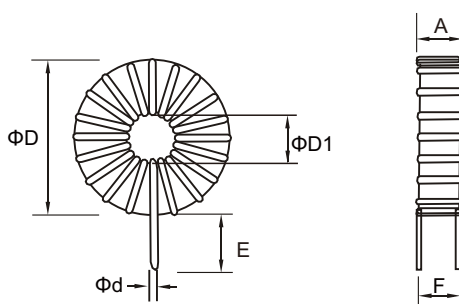
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-5.0A	10	8.3	20	8.3	10.8	23	7.5	8.5	10	1.00	9
TR-150M-5.0A	15	11.8	20	10.0	12.4	23	7.5	8.5	10	1.00	9
TR-220M-5.0A	22	19.0	20	14.8	34	30	13	14	10	1.00	11
TR-330M-5.0A	33	27.4	20	17.5	35	30	13	14	10	1.00	11
TR-470M-5.0A	47	36.6	20	21.0	36	30	13	14	10	1.00	11
TR-680M-5.0A	68	49.7	20	24.8	37	30	13	14	10	1.00	11
TR-101M-5.0A	100	81.0	20	38.5	86	45	18	19	15	1.00	21
TR-151M-5.0A	150	113.2	20	47.5	89	45	18	19	15	1.00	21
TR-221M-5.0A	220	176.4	20	56.0	162	51	21	22	15	1.00	21
TR-331M-5.0A	330	245.8	20	68.0	170	51	21	22	15	1.00	21
TR-471M-5.0A	470	399.0	20	116.5	508	83	30	31	20	1.00	45
TR-681M-5.0A	680	546.0	20	140.0	516	83	30	31	20	1.00	45
TR-102M-5.0A	1000	749.0	20	170.0	526	83	30	31	20	1.00	45

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

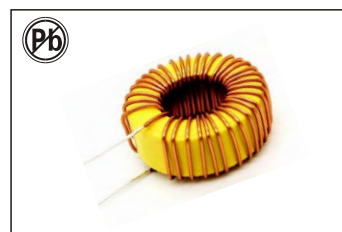
- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm

Toroidal choke coils

TR-10A Series



FEATURES:

- High saturation material
- Wide inductance range
- High current capability
- Long term stability
- High reliability
- Low DC resistance

OPTIONS:

- Packaging: Bulk is standard
- Mounting: (V)ertical and (H)orizonta is standard
- Inductance: Optional values available

COMMON APPLICATIONS:

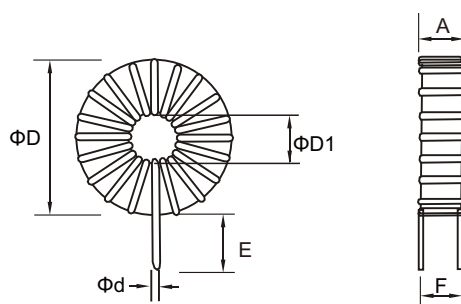
- Switching Regulators
- Automotive Systems
- Power Amplifiers
- Power Supplies
- SCR and Triac Controls
- Speaker Crossover Networks
- EMI/RFI suppression
- Filters

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance(f _l =1KHz)		Tol (±10%)	DCR max (mΩ)	Weight (grams)	ΦD	F	A	E	Φd	ΦD1
	At Idc=0A	At rate current									
TR-100M-10A	10	8.6	20	5.3	47	37	14	15	10	1.40	15.5
TR-150M-10A	15	11.9	20	6.7	49	37	14	15	10	1.40	15.5
TR-220M-10A	22	18.2	20	9.0	86	47	19	20	15	1.40	20
TR-330M-10A	33	25.7	20	11.0	88	47	19	20	15	1.40	20
TR-470M-10A	47	33.7	20	13.5	91	47	19	20	15	1.40	20
TR-680M-10A	68	52.6	20	15.5	168	53	22	23	15	1.40	20
TR-101M-10A	100	70.5	20	19.5	172	53	22	23	15	1.40	20
TR-151M-10A	150	122.5	20	33.5	514	85	31	32	20	1.40	43
TR-221M-10A	220	167	20	41	523	85	31	32	20	1.40	43
TR-331M-10A	330	231	20	50	534	85	31	32	20	1.40	43
TR-471M-10A	470	357	20	65	1024	85	56	57	20	1.40	43
TR-681M-10A	680	476	20	79	1041	85	56	57	20	1.40	43
TR-102M-10A	1000	781	20	101	2535	110	71	72	20	1.40	50

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Testing: (Equivalent acceptable)
Inductance: Measured at 1kHz 0.1V HP4284A
RDC: QuadTech 1880 Milliohm meter
 - IDC Max: Losers inductance by 10%
 - Temperature range: -55°C to +125°C
-55°C to +85°C at full rated current
 - Mounting: Add (V), (H) as Suffix to Part Number
- Note: All specifications subject to change without notice.



Dimensions:mm