Wire Wound SMD Power Inductors-TRMR-SF Series

The TRMR series of wire wound chip inductors are surface-mount devices that use magnetic adhesive to encapsulate the wound coil and magnetic core. They combine the high inductance and high current-carrying capacity of traditional wire wound inductors with the compactness of SMT technology, while their magnetic adhesive structure effectively reduces electromagnetic interference.

Features

- Ferrite core metallized, impact-resistant and durable.
- Closed magnetic circuit design reduces leakage and EMI.
- Low DC resistance cuts losses, compact size saves PCB space.
- Automated production ensures consistent quality.

Applications

- Smartphones, set-top boxes, VR/AR
- Notebooks, desktops, servers
- Gaming devices, navigation systems, multimedia devices

Operating Temp

- -40℃~+125℃

Product Identification

1	2	3	4	5	6	7
TRMR	201610	SF	XXX	X	T	X

1	Product Symbol
TRMR	SMD Power Inductor

2	External Dimensions(mm)
201610	2.1*1.7*1.05
252010	2.5*2.0*1.05
252012	2.5*2.0*1.25
303010	3.0*3.0*1.2
303012	3.0*3.0*1.3
303015	3.0*3.0*1.5
404018	4.0*4.0*1.8
404030	4.0*4.0*3.0
505020	5.0*5.0*2.0
505040	5.0*5.0*4.1
606028	6.0*6.0*3.0
606045	6.0*6.0*4.5
808040	8.0*8.0*4.2

3	Internal Code
SF	Ferrite

4	Nominal Inductance
R47	0.47μH
1R0	1.0μH
100	10μH
101	100μH
102	1000μH

5	Inductance Tolerance
K	±10%
M	±20%
N	±30%

6	Packing
T	Tape Carrier Package

7	Internal Code
A	Standard
B	Special

Shape and Dimensions

Fig.1

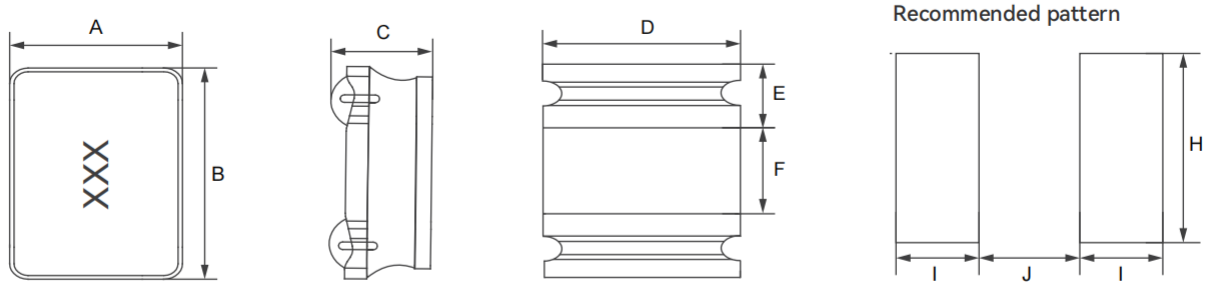


Fig.2

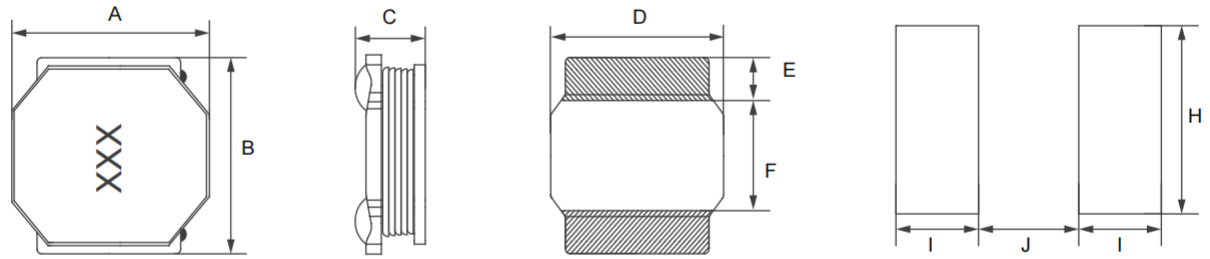
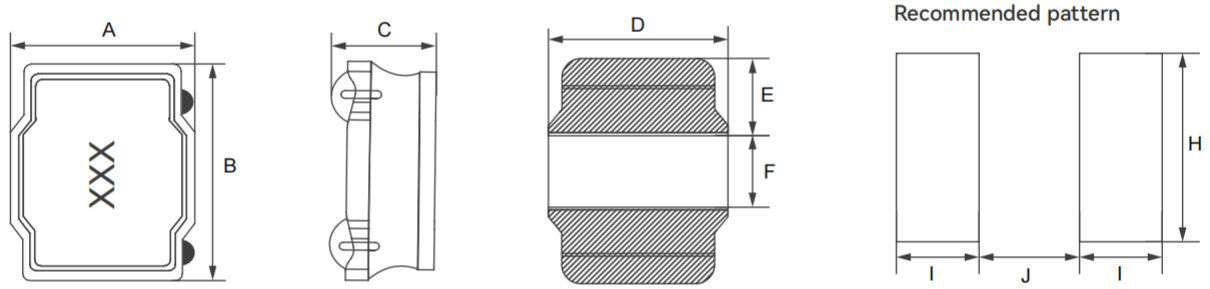


Fig.3



Dimensions

Unit:mm

Series	A	B	C	D	E	F	H	I	J	Shape
TRMR201610SF	2.1±0.2	1.7±0.2	1.05Max.	1.7Ref.	0.68Ref.	0.7Ref.	1.7Ref.	0.7Ref.	0.7Ref.	Fig.1
TRMR252010SF	2.5+0.3/-0.1	2.0+0.35/-0.05	1.05Max.	2.15Ref.	0.8Ref.	1.0Ref.	2.2Ref.	0.85Ref.	0.9Ref.	Fig.1
TRMR252012SF	2.5+0.3/-0.1	2.0+0.35/-0.05	1.25Max.	2.15Ref.	0.8Ref.	1.0Ref.	2.2Ref.	0.85Ref.	0.9Ref.	Fig.1
TRMR303010SF	3.0±0.2	3.0±0.2	1.2Max.	2.5Ref.	0.9Ref.	1.2Ref.	3.0Ref.	0.9Ref.	1.2Ref.	Fig.2
TRMR303012SF	3.0±0.2	3.0±0.2	1.3Max.	2.85Ref.	0.9Ref.	1.2Ref.	3.0Ref.	0.9Ref.	1.2Ref.	Fig.2
TRMR303015SF	3.0±0.2	3.0±0.2	1.5Max.	2.78Ref. 2.6Ref.	0.9Ref.	1.2Ref. 1.2Ref.	3.08Ref. 3.0Typ.	0.9Ref. 0.9Typ.	1.2Ref. 1.2Typ.	Fig.3 Fig.2
TRMR404018SF	4.0±0.2	4.0±0.2	1.8Max.	3.4Ref.	1.2Ref.	1.6Ref.	3.8Ref.	1.5Ref.	1.3Ref.	Fig.2
TRMR404030SF	4.0±0.2	4.0±0.2	3.0Max.	3.2Ref. 3.4Ref.	0.95Ref. 1.35Ref.	2.1Ref. 1.3Ref.	3.5Ref. 3.7Ref.	1.25Ref. 1.65Ref.	1.8Ref. 1.0Ref.	Fig.3 Fig.2
TRMR505020SF	5.0±0.2	5.0±0.2	2.0Max.	4.0Ref.	1.35Ref.	2.3Ref.	4.3Typ.	1.65Typ.	2.0Typ.	Fig.3
TRMR505040SF	5.0±0.2	5.0±0.2	4.1Max.	4.0Ref.	1.5Ref.	2.0Ref.	4.3Ref.	1.8Ref.	1.7Ref.	Fig.2
TRMR606028SF	6.0±0.2	6.0±0.2	3.0Max.	5.0Ref.	1.85Ref.	2.3Ref.	5.3Ref.	2.15Ref.	2.0Ref.	Fig.3
TRMR606045SF	6.0±0.2	6.0±0.2	4.5Max.	4.9Ref.	1.55Ref.	2.9Ref.	5.2Ref.	1.85Ref.	2.6Ref.	Fig.3
TRMR808040SF	8.0±0.3	8.0±0.3	4.2Max.	6.3Ref.	2.45Ref.	3.1Ref.	6.6Ref.	2.75Ref.	2.8Ref.	Fig.3

Remarks:

Series	Shape	Inductance
TRMR303015SF	Fig.3	TRMR303015SF1R0□TA~TRMR303015SF101□TA
	Fig.2	TRMR303015SF1R0□TB~TRMR303015SF101□TB
TRMR404030SF	Fig.3	TRMR404030SF1R0□TA~TRMR404030SF681□TA
	Fig.2	TRMR404030SF1R0□TB~RMR404030SF221□TB

Specification

TRMR201610SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR201610SFR47NTA	0.47±30%	53.00	41.00	2.70	2.16	@1MHz/0.1V
TRMR201610SFR68NTA	0.68±30%	82.00	66.00	2.00	1.60	@1MHz/0.1V
TRMR201610SF1R0MTA	1.0±20%	115.00	90.00	2.00	1.60	@1MHz/0.1V
TRMR201610SF1R5MTA	1.5±20%	156.00	137.00	1.70	1.36	@1MHz/0.1V
TRMR201610SF2R2MTA	2.2±20%	174.00	155.00	1.26	1.01	@1MHz/0.1V
TRMR201610SF3R3MTA	3.3±20%	294.00	240.00	1.05	0.84	@1MHz/0.1V
TRMR201610SF4R7MTA	4.7±20%	432.00	340.00	0.85	0.68	@1MHz/0.1V
TRMR201610SF6R8MTA	6.8±20%	620.00	575.00	0.72	0.58	@1MHz/0.1V
TRMR201610SF100MTA	10±20%	864.00	730.00	0.60	0.48	@1MHz/0.1V
TRMR201610SF150MTA	15±20%	1680.00	1300.00	0.55	0.39	@1MHz/0.1V
TRMR201610SF180MTA	18±20%	1700.00	1360.00	0.40	0.32	@1MHz/0.1V
TRMR201610SF220MTA	22±20%	2000.00	1550.00	0.38	0.30	@1MHz/0.1V

TRMR252010SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR252010SFR24NTA	0.24±30%	34.00	20.00	3.50	2.65	@1MHz/0.1V
TRMR252010SFR33NTA	0.33±30%	38.00	28.00	3.50	2.60	@1MHz/0.1V
TRMR252010SFR47NTA	0.47±30%	42.00	28.00	2.80	2.57	@1MHz/0.1V
TRMR252010SFR68NTA	0.68±30%	49.00	39.00	2.30	2.30	@1MHz/0.1V
TRMR252010SF1R0MTA	1.0±20%	66.00	55.00	2.05	2.05	@1MHz/0.1V
TRMR252010SF1R5MTA	1.5±20%	108.00	88.00	1.70	1.50	@1MHz/0.1V
TRMR252010SF2R2MTA	2.2±20%	145.00	125.00	1.55	1.55	@1MHz/0.1V
TRMR252010SF3R3MTA	3.3±20%	204.00	172.00	1.10	1.10	@1MHz/0.1V
TRMR252010SF4R7MTA	4.7±20%	300.00	255.00	0.95	0.95	@1MHz/0.1V
TRMR252010SF6R8MTA	6.8±20%	444.00	380.00	0.90	0.80	@1MHz/0.1V
TRMR252010SF100MTA	10±20%	564.00	520.00	0.65	0.60	@1MHz/0.1V
TRMR252010SF150MTA	15±20%	960.00	890.00	0.55	0.45	@1MHz/0.1V
TRMR252010SF220MTA	22±20%	1344.00	1030.00	0.40	0.40	@1MHz/0.1V

TRMR252012SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR252012SFR24NTA	0.24±30%	28.00	20.00	4.05	3.50	@1MHz/0.1V
TRMR252012SFR33NTA	0.33±30%	40.00	31.00	4.00	3.00	@1MHz/0.1V
TRMR252012SFR47NTA	0.47±30%	40.00	31.00	3.60	2.90	@1MHz/0.1V
TRMR252012SFR56NTA	0.56±30%	40.00	31.00	3.30	2.80	@1MHz/0.1V
TRMR252012SFR68MTA	0.68±30%	45.00	36.00	3.28	2.60	@1MHz/0.1V
TRMR252012SFR82MTA	0.82±20%	60.00	50.00	2.60	2.45	@1MHz/0.1V
TRMR252012SF1R0MTA	1.0±20%	60.00	50.00	2.45	2.40	@1MHz/0.1V
TRMR252012SF1R5MTA	1.5±20%	84.00	73.00	2.05	1.90	@1MHz/0.1V
TRMR252012SF2R2MTA	2.2±20%	110.00	93.00	1.90	1.80	@1MHz/0.1V
TRMR252012SF3R3MTA	3.3±20%	155.00	132.00	1.50	1.40	@1MHz/0.1V
TRMR252012SF4R7MTA	4.7±20%	228.00	205.00	1.35	1.20	@1MHz/0.1V
TRMR252012SF6R8MTA	6.8±20%	325.00	266.00	1.00	0.90	@1MHz/0.1V
TRMR252012SF100MTA	10±20%	480.00	400.00	0.79	0.75	@1MHz/0.1V
TRMR252012SF150MTA	15±20%	625.00	522.00	0.65	0.55	@1MHz/0.1V
TRMR252012SF180MTA	18±20%	1000.00	855.00	0.55	0.50	@1MHz/0.1V
TRMR252012SF220MTA	22±20%	1020.00	870.00	0.50	0.45	@1MHz/0.1V
TRMR252012SF330MTA	33±20%	1400.00	1300.00	0.38	0.37	@1MHz/0.1V
TRMR252012SF470MTA	47±20%	2000.00	1550.00	0.30	0.29	@1MHz/0.1V

TRMR303010SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR303010SF1R0□TA	1.0	80.00	60.00	2.30	2.10	@100KHz/0.25V
TRMR303010SF1R5□TA	1.5	100.00	75.00	2.10	2.00	@100KHz/0.25V
TRMR303010SF2R2□TA	2.2	140.00	115.00	1.60	1.50	@100KHz/0.25V
TRMR303010SF3R3□TA	3.3	189.00	160.00	1.30	1.20	@100KHz/0.25V
TRMR303010SF4R7□TA	4.7	280.00	215.00	1.10	1.00	@100KHz/0.25V
TRMR303010SF6R8□TA	6.8	380.00	300.00	0.95	0.90	@100KHz/0.25V
TRMR303010SF100□TA	10	520.00	465.00	0.75	0.70	@100KHz/0.25V
TRMR303010SF150□TA	15	850.00	750.00	0.60	0.50	@100KHz/0.25V
TRMR303010SF220□TA	22	1300.00	1000.00	0.50	0.45	@100KHz/0.25V
TRMR303010SF330□TA	33	2050.00	1600.00	0.40	0.35	@100KHz/0.25V
TRMR303010SF470□TA	47	2500.00	2000.00	0.35	0.30	@100KHz/0.25V

TRMR303012SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR303012SF1R0□TA	1.0	60.00	50.00	2.00	1.95	@100KHz/0.25V
TRMR303012SF1R2□TA	1.2	72.00	58.00	1.80	1.75	@100KHz/0.25V
TRMR303012SF1R5□TA	1.5	72.00	58.00	1.60	1.55	@100KHz/0.25V
TRMR303012SF1R8□TA	1.8	95.00	75.00	1.50	1.45	@100KHz/0.25V
TRMR303012SF2R2□TA	2.2	105.00	85.00	1.40	1.35	@100KHz/0.25V
TRMR303012SF2R4□TA	2.4	110.00	88.00	1.30	1.25	@100KHz/0.25V
TRMR303012SF2R7□TA	2.7	110.00	88.00	1.14	1.10	@100KHz/0.25V
TRMR303012SF3R3□TA	3.3	130.00	98.00	1.05	1.00	@100KHz/0.25V
TRMR303012SF3R6□TA	3.6	156.00	138.00	1.05	1.00	@100KHz/0.25V
TRMR303012SF3R9□TA	3.9	156.00	138.00	1.00	0.95	@100KHz/0.25V
TRMR303012SF4R7□TA	4.7	156.00	138.00	0.90	0.85	@100KHz/0.25V
TRMR303012SF5R6□TA	5.6	226.00	175.00	0.80	0.75	@100KHz/0.25V
TRMR303012SF6R8□TA	6.8	247.00	190.00	0.75	0.70	@100KHz/0.25V
TRMR303012SF100□TA	10	345.00	290.00	0.60	0.55	@100KHz/0.25V
TRMR303012SF120□TA	12	480.00	400.00	0.50	0.45	@100KHz/0.25V
TRMR303012SF150□TA	15	492.00	410.00	0.45	0.43	@100KHz/0.25V
TRMR303012SF180□TA	18	709.00	570.00	0.43	0.42	@100KHz/0.25V
TRMR303012SF220□TA	22	839.00	700.00	0.42	0.40	@100KHz/0.25V
TRMR303012SF270□TA	27	1100.00	760.00	0.35	0.34	@100KHz/0.25V
TRMR303012SF330□TA	33	1130.00	880.00	0.34	0.32	@100KHz/0.25V
TRMR303012SF360□TA	36	1200.00	930.00	0.33	0.30	@100KHz/0.25V
TRMR303012SF390□TA	39	1700.00	1200.00	0.30	0.28	@100KHz/0.25V
TRMR303012SF470□TA	47	1800.00	1350.00	0.27	0.26	@100KHz/0.25V
TRMR303012SF560□TA	56	1900.00	1500.00	0.26	0.25	@100KHz/0.25V
TRMR303012SF680□TA	68	2150.00	1700.00	0.24	0.22	@100KHz/0.25V
TRMR303012SF820□TA	82	3200.00	2500.00	0.21	0.20	@100KHz/0.25V
TRMR303012SF101□TA	100	3600.00	2900.00	0.20	0.18	@100KHz/0.25V

TRMR303015SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR303015SF1R0□TA	1.0	39.00	32.00	2.40	2.30	@100KHz/0.25V
TRMR303015SF1R2□TA	1.2	50.00	41.00	2.35	2.20	@100KHz/0.25V
TRMR303015SF1R5□TA	1.5	65.00	52.00	2.30	2.10	@100KHz/0.25V
TRMR303015SF2R2□TA	2.2	78.00	66.00	1.90	1.80	@100KHz/0.25V
TRMR303015SF3R3□TA	3.3	104.00	94.00	1.40	1.30	@100KHz/0.25V
TRMR303015SF4R7□TA	4.7	160.00	126.00	1.10	1.00	@100KHz/0.25V
TRMR303015SF6R8□TA	6.8	240.00	180.00	0.85	0.80	@100KHz/0.25V
TRMR303015SF100□TA	10	325.00	270.00	0.78	0.75	@100KHz/0.25V
TRMR303015SF120□TA	12	380.00	290.00	0.75	0.70	@100KHz/0.25V
TRMR303015SF150□TA	15	450.00	350.00	0.70	0.65	@100KHz/0.25V
TRMR303015SF220□TA	22	595.00	500.00	0.52	0.50	@100KHz/0.25V
TRMR303015SF330□TA	33	1150.00	860.00	0.48	0.45	@100KHz/0.25V
TRMR303015SF470□TA	47	1500.00	1150.00	0.35	0.34	@100KHz/0.25V
TRMR303015SF680□TA	68	2500.00	2000.00	0.33	0.30	@100KHz/0.25V
TRMR303015SF101□TA	100	3200.00	2500.00	0.27	0.25	@100KHz/0.25V
TRMR303015SF1R0□TB	1.0	48.00	40.00	2.80	2.50	@100KHz/0.25V
TRMR303015SF1R5□TB	1.5	65.00	50.00	2.10	2.00	@100KHz/0.25V
TRMR303015SF2R2□TB	2.2	78.00	65.00	1.60	1.50	@100KHz/0.25V
TRMR303015SF3R3□TB	3.3	104.00	90.00	1.30	1.20	@100KHz/0.25V
TRMR303015SF4R7□TB	4.7	160.00	135.00	1.20	1.10	@100KHz/0.25V
TRMR303015SF6R8□TB	6.8	234.00	206.00	0.85	0.80	@100KHz/0.25V
TRMR303015SF100□TB	10	330.00	260.00	0.70	0.60	@100KHz/0.25V
TRMR303015SF150□TB	15	430.00	350.00	0.60	0.50	@100KHz/0.25V
TRMR303015SF220□TB	22	580.00	480.00	0.55	0.50	@100KHz/0.25V
TRMR303015SF330□TB	33	1050.00	835.00	0.44	0.40	@100KHz/0.25V
TRMR303015SF470□TB	47	1500.00	1150.00	0.35	0.30	@100KHz/0.25V
TRMR303015SF680□TB	68	2400.00	1850.00	0.26	0.25	@100KHz/0.25V
TRMR303015SF101□TB	100	3900.00	3100.00	0.20	0.18	@100KHz/0.25V

TRMR404018SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR404018SF1R0□TA	1.0	36.00	28.00	4.30	3.50	@100KHz/0.25V
TRMR404018SF1R2□TA	1.2	45.00	35.00	4.00	3.00	@100KHz/0.25V
TRMR404018SF1R5□TA	1.5	38.00	32.00	3.50	2.80	@100KHz/0.25V
TRMR404018SF2R2□TA	2.2	58.00	47.00	2.80	2.60	@100KHz/0.25V
TRMR404018SF3R3□TA	3.3	84.00	70.00	2.15	2.00	@100KHz/0.25V
TRMR404018SF4R7□TA	4.7	115.00	88.00	2.00	1.80	@100KHz/0.25V
TRMR404018SF5R6□TA	5.6	125.00	100.00	1.70	1.65	@100KHz/0.25V
TRMR404018SF6R8□TA	6.8	135.00	110.00	1.60	1.50	@100KHz/0.25V
TRMR404018SF100□TA	10	220.00	170.00	1.40	1.30	@100KHz/0.25V
TRMR404018SF150□TA	15	325.00	270.00	0.95	0.90	@100KHz/0.25V
TRMR404018SF220□TA	22	450.00	365.00	0.80	0.75	@100KHz/0.25V
TRMR404018SF330□TA	33	680.00	550.00	0.75	0.70	@100KHz/0.25V
TRMR404018SF470□TA	47	845.00	780.00	0.65	0.55	@100KHz/0.25V
TRMR404018SF680□TA	68	1300.00	1000.00	0.52	0.50	@100KHz/0.25V
TRMR404018SF101□TA	100	1900.00	1500.00	0.42	0.40	@100KHz/0.25V
TRMR404018SF151□TA	150	3000.00	2300.00	0.36	0.34	@100KHz/0.25V
TRMR404018SF221□TA	220	4800.00	4200.00	0.30	0.25	@100KHz/0.25V

TRMR404030SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR404030SF1R0□TA	1.0	18.00	14.00	5.26	4.15	@100KHz/1V
TRMR404030SF1R5□TA	1.5	26.00	20.00	4.84	3.34	@100KHz/1V
TRMR404030SF2R2□TA	2.2	39.00	30.00	4.90	2.95	@100KHz/1V
TRMR404030SF3R3□TA	3.3	52.00	40.00	3.30	2.40	@100KHz/1V
TRMR404030SF3R9□TA	3.9	74.00	57.00	3.00	2.10	@100KHz/1V
TRMR404030SF4R7□TA	4.7	78.00	60.00	2.90	2.00	@100KHz/1V
TRMR404030SF6R8□TA	6.8	117.00	90.00	2.75	1.60	@100KHz/1V
TRMR404030SF100□TA	10	130.00	100.00	1.95	1.50	@100KHz/1V
TRMR404030SF150□TA	15	247.00	190.00	1.65	1.11	@100KHz/1V
TRMR404030SF220□TA	22	293.00	225.00	1.30	1.00	@100KHz/1V
TRMR404030SF330□TA	33	429.00	330.00	1.10	0.84	@100KHz/1V
TRMR404030SF470□TA	47	579.00	445.00	0.95	0.72	@100KHz/1V
TRMR404030SF510□TA	51	611.00	470.00	0.90	0.70	@100KHz/1V
TRMR404030SF680□TA	68	1128.00	868.00	0.72	0.52	@100KHz/1V
TRMR404030SF101□TA	100	1495.00	1150.00	0.60	0.45	@100KHz/1V
TRMR404030SF121□TA	120	1755.00	1350.00	0.55	0.42	@100KHz/1V
TRMR404030SF151□TA	150	2340.00	1800.00	0.50	0.30	@100KHz/1V
TRMR404030SF331□TA	330	5200.00	4000.00	0.30	0.25	@100KHz/1V
TRMR404030SF471□TA	470	9360.00	7200.00	0.30	0.20	@100KHz/1V
TRMR404030SF681□TA	680	9854.00	7580.00	0.19	0.14	@100KHz/1V
TRMR404030SF1R0□TB	1.0	28.00	22.00	5.50	4.50	@100KHz/0.25V
TRMR404030SF1R5□TB	1.5	41.00	34.00	5.00	3.50	@100KHz/0.25V
TRMR404030SF2R2□TB	2.2	46.00	40.00	4.80	3.00	@100KHz/0.25V
TRMR404030SF3R3□TB	3.3	65.00	56.00	4.00	2.40	@100KHz/0.25V
TRMR404030SF4R7□TB	4.7	78.00	68.00	3.40	2.30	@100KHz/0.25V
TRMR404030SF6R8□TB	6.8	125.00	102.00	2.50	2.00	@100KHz/0.25V
TRMR404030SF100□TB	10	155.00	124.00	2.20	1.70	@100KHz/0.25V
TRMR404030SF150□TB	15	260.00	215.00	1.80	1.20	@100KHz/0.25V
TRMR404030SF220□TB	22	292.00	260.00	1.60	1.10	@100KHz/0.25V
TRMR404030SF330□TB	33	465.00	385.00	1.20	0.95	@100KHz/0.25V
TRMR404030SF470□TB	47	598.00	525.00	1.10	0.80	@100KHz/0.25V
TRMR404030SF560□TB	56	694.00	620.00	0.88	0.75	@100KHz/0.25V
TRMR404030SF680□TB	68	1087.00	950.00	0.77	0.60	@100KHz/0.25V
TRMR404030SF101□TB	100	1440.00	1250.00	0.70	0.55	@100KHz/0.25V
TRMR404030SF151□TB	150	1820.00	1550.00	0.50	0.45	@100KHz/0.25V
TRMR404030SF221□TB	220	4500.00	3900.00	0.40	0.30	@100KHz/0.25V

TRMR505020SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR505020SF1R0□TA	1.0	26.00	23.00	4.40	4.20	@100kHz/0.25V
TRMR505020SF1R5□TA	1.5	34.00	28.00	4.20	4.10	@100kHz/0.25V
TRMR505020SF2R2□TA	2.2	49.00	40.00	3.80	3.20	@100kHz/0.25V
TRMR505020SF3R3□TA	3.3	58.00	50.00	3.20	3.10	@100kHz/0.25V
TRMR505020SF4R7□TA	4.7	78.00	68.00	2.50	2.40	@100kHz/0.25V
TRMR505020SF6R8□TA	6.8	106.00	86.00	2.20	2.10	@100kHz/0.25V
TRMR505020SF100□TA	10	150.00	124.00	1.50	1.40	@100kHz/0.25V
TRMR505020SF150□TA	15	220.00	180.00	1.40	1.30	@100kHz/0.25V
TRMR505020SF220□TA	22	294.00	260.00	1.15	1.10	@100kHz/0.25V
TRMR505020SF270□TA	27	390.00	330.00	1.10	1.00	@100kHz/0.25V
TRMR505020SF330□TA	33	462.00	390.00	1.00	0.60	@100kHz/0.25V
TRMR505020SF470□TA	47	630.00	525.00	0.85	0.80	@100kHz/0.25V
TRMR505020SF680□TA	68	800.00	630.00	0.58	0.55	@100kHz/0.25V

TRMR505020SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR505020SF101□TA	100	1320.00	1110.00	0.55	0.50	@100kHz/0.25V
TRMR505020SF221□TA	220	2860.00	2400.00	0.35	0.30	@100kHz/0.25V
TRMR505020SF102□TA	1000	18000.00	12500.00	0.15	0.14	@100kHz/0.25V

TRMR505040SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR505040SF1R0□TA	1.0	18.00	14.00	7.50	6.00	@100kHz/0.25V
TRMR505040SF1R5□TA	1.5	25.00	20.00	5.50	5.40	@100kHz/0.25V
TRMR505040SF2R2□TA	2.2	26.00	22.00	4.90	4.80	@100kHz/0.25V
TRMR505040SF3R3□TA	3.3	33.00	26.00	4.00	3.60	@100kHz/0.25V
TRMR505040SF4R7□TA	4.7	42.00	35.00	3.50	3.40	@100kHz/0.25V
TRMR505040SF6R8□TA	6.8	56.00	46.00	2.90	2.80	@100kHz/0.25V
TRMR505040SF100□TA	10	78.00	63.00	2.30	2.20	@100kHz/0.25V
TRMR505040SF150□TA	15	104.00	95.00	2.00	1.90	@100kHz/0.25V
TRMR505040SF220□TA	22	166.00	138.00	1.60	1.50	@100kHz/0.25V
TRMR505040SF270□TA	27	200.00	165.00	1.40	1.30	@100kHz/0.25V
TRMR505040SF330□TA	33	228.00	190.00	1.30	1.20	@100kHz/0.25V
TRMR505040SF470□TA	47	370.00	305.00	1.10	1.00	@100kHz/0.25V
TRMR505040SF560□TA	56	410.00	340.00	1.00	0.95	@100kHz/0.25V
TRMR505040SF680□TA	68	600.00	435.00	0.85	0.80	@100kHz/0.25V
TRMR505040SF101□TA	100	700.00	550.00	0.70	0.60	@100kHz/0.25V
TRMR505040SF221□TA	220	2250.00	1800.00	0.40	0.35	@100kHz/0.25V

TRMR606028SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR606028SF1R0□TA	1.0	20.00	15.00	8.00	5.50	@100KHz/0.25V
TRMR606028SF1R5□TA	1.5	25.00	18.00	6.20	5.20	@100KHz/0.25V
TRMR606028SF2R2□TA	2.2	28.00	21.00	6.00	4.50	@100KHz/0.25V
TRMR606028SF3R3□TA	3.3	40.00	32.00	4.50	3.50	@100KHz/0.25V
TRMR606028SF4R7□TA	4.7	45.00	40.00	4.00	3.00	@100KHz/0.25V
TRMR606028SF5R6□TA	5.6	60.00	50.00	3.50	2.50	@100KHz/0.25V
TRMR606028SF6R8□TA	6.8	65.00	55.00	3.20	2.40	@100KHz/0.25V
TRMR606028SF100□TA	10	85.00	70.00	2.50	2.00	@100KHz/0.25V
TRMR606028SF120□TA	12	96.00	80.00	2.40	1.90	@100KHz/0.25V
TRMR606028SF150□TA	15	125.00	100.00	2.30	1.80	@100KHz/0.25V
TRMR606028SF220□TA	22	185.00	150.00	1.90	1.40	@100KHz/0.25V
TRMR606028SF270□TA	27	210.00	185.00	1.60	1.30	@100KHz/0.25V
TRMR606028SF330□TA	33	260.00	200.00	1.40	1.20	@100KHz/0.25V
TRMR606028SF470□TA	47	410.00	350.00	1.30	1.00	@100KHz/0.25V
TRMR606028SF560□TA	56	420.00	360.00	1.10	0.90	@100KHz/0.25V
TRMR606028SF680□TA	68	500.00	400.00	1.00	0.85	@100KHz/0.25V
TRMR606028SF820□TA	82	680.00	550.00	0.90	0.80	@100KHz/0.25V
TRMR606028SF101□TA	100	750.00	620.00	0.85	0.75	@100KHz/0.25V
TRMR606028SF151□TA	150	860.00	800.00	0.65	0.60	@100KHz/0.25V
TRMR606028SF221□TA	220	1600.00	1300.00	0.55	0.50	@100KHz/0.25V
TRMR606028SF331□TA	330	2400.00	1850.00	0.50	0.45	@100KHz/0.25V
TRMR606028SF471□TA	470	3200.00	2400.00	0.35	0.32	@100KHz/0.25V
TRMR606028SF681□TA	680	5500.00	4300.00	0.32	0.30	@100KHz/0.25V
TRMR606028SF821□TA	820	5800.00	4500.00	0.26	0.25	@100KHz/0.25V
TRMR606028SF102□TA	1000	7800.00	5950.00	0.23	0.22	@100KHz/0.25V

TRMR606045SF Series

Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR606045SF1R0□TA	1.0	15.00	11.00	12.50	6.00	@100KHz/0.25V
TRMR606045SF1R5□TA	1.5	20.00	16.00	11.00	4.90	@100KHz/0.25V
TRMR606045SF1R8□TA	1.8	20.00	16.00	10.00	4.50	@100KHz/0.25V
TRMR606045SF2R2□TA	2.2	23.00	18.00	9.00	4.40	@100KHz/0.25V
TRMR606045SF3R3□TA	3.3	30.00	23.00	7.50	4.00	@100KHz/0.25V
TRMR606045SF4R7□TA	4.7	40.00	32.00	6.70	3.60	@100KHz/0.25V
TRMR606045SF5R6□TA	5.6	48.00	39.00	6.00	3.10	@100KHz/0.25V
TRMR606045SF6R8□TA	6.8	54.00	44.00	5.30	2.80	@100KHz/0.25V
TRMR606045SF8R2□TA	8.2	70.00	55.00	4.80	2.50	@100KHz/0.25V
TRMR606045SF100□TA	10	72.00	58.00	4.50	2.40	@100KHz/0.25V
TRMR606045SF120□TA	12	95.00	74.00	3.80	2.20	@100KHz/0.25V
TRMR606045SF150□TA	15	100.00	80.00	3.40	2.10	@100KHz/0.25V
TRMR606045SF180□TA	18	130.00	110.00	3.10	1.80	@100KHz/0.25V
TRMR606045SF220□TA	22	160.00	125.00	2.90	1.60	@100KHz/0.25V
TRMR606045SF330□TA	33	210.00	175.00	2.30	1.50	@100KHz/0.25V
TRMR606045SF470□TA	47	315.00	260.00	1.90	1.20	@100KHz/0.25V
TRMR606045SF680□TA	68	420.00	345.00	1.60	1.00	@100KHz/0.25V
TRMR606045SF101□TA	100	650.00	545.00	1.30	0.80	@100KHz/0.25V
TRMR606045SF151□TA	150	1050.00	820.00	1.10	0.70	@100KHz/0.25V
TRMR606045SF181□TA	180	1200.00	900.00	1.00	0.60	@100KHz/0.25V
TRMR606045SF221□TA	220	2000.00	1550.00	0.90	0.50	@100KHz/0.25V
TRMR606045SF331□TA	330	2500.00	2000.00	0.80	0.40	@100KHz/0.25V
TRMR606045SF471□TA	470	3300.00	2500.00	0.70	0.35	@100KHz/0.25V
TRMR606045SF561□TA	560	4400.00	3500.00	0.60	0.30	@100KHz/0.25V
TRMR606045SF681□TA	680	4900.00	4000.00	0.50	0.28	@100KHz/0.25V
TRMR606045SF821□TA	820	6500.00	5200.00	0.45	0.25	@100KHz/0.25V
TRMR606045SF102□TA	1000	7500.00	6000.00	0.40	0.23	@100KHz/0.25V

TRMR808040SF Series

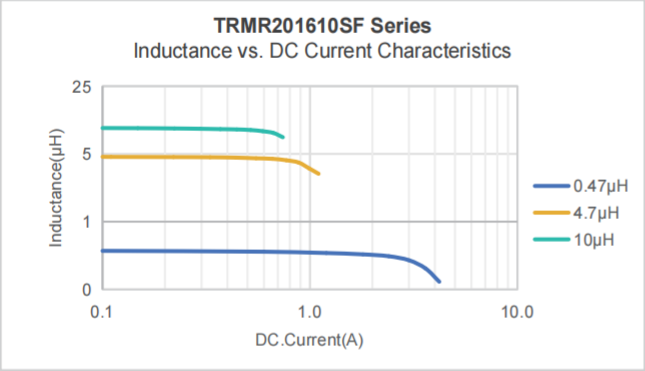
Part Number	Inductance	DC Resistance RDC(mΩ)		Saturation Current	Heat Rating Current	L Test Condition
	L (μH)	Max.	Typ.	Isat(A)	Irms(A)	/
TRMR808040SF1R0□TA	1.0	9.00	6.00	12.00	8.50	@100KHz/0.25V
TRMR808040SF1R5□TA	1.5	12.00	8.00	9.50	7.50	@100KHz/0.25V
TRMR808040SF2R2□TA	2.2	14.00	10.00	9.00	7.00	@100KHz/0.25V
TRMR808040SF3R3□TA	3.3	20.00	15.00	8.00	6.00	@100KHz/0.25V
TRMR808040SF4R7□TA	4.7	22.00	18.00	6.20	5.00	@100KHz/0.25V
TRMR808040SF6R8□TA	6.8	30.00	25.00	5.00	4.50	@100KHz/0.25V
TRMR808040SF100□TA	10	50.00	40.00	4.50	3.50	@100KHz/0.25V
TRMR808040SF150□TA	15	60.00	50.00	3.20	3.00	@100KHz/0.25V
TRMR808040SF220□TA	22	84.00	70.00	2.80	2.60	@100KHz/0.25V
TRMR808040SF330□TA	33	135.00	110.00	2.20	2.00	@100KHz/0.25V
TRMR808040SF470□TA	47	180.00	140.00	2.00	1.90	@100KHz/0.25V
TRMR808040SF680□TA	68	254.00	210.00	1.60	1.50	@100KHz/0.25V
TRMR808040SF101□TA	100	360.00	300.00	1.25	1.20	@100KHz/0.25V
TRMR808040SF221□TA	220	780.00	680.00	0.90	0.80	@100KHz/0.25V
TRMR808040SF331□TA	330	1150.00	1000.00	0.70	0.65	@100KHz/0.25V
TRMR808040SF471□TA	470	1900.00	1500.00	0.65	0.60	@100KHz/0.25V
TRMR808040SF681□TA	680	2650.00	2200.00	0.55	0.50	@100KHz/0.25V
TRMR808040SF102□TA	1000	3600.00	2850.00	0.40	0.35	@100KHz/0.25V

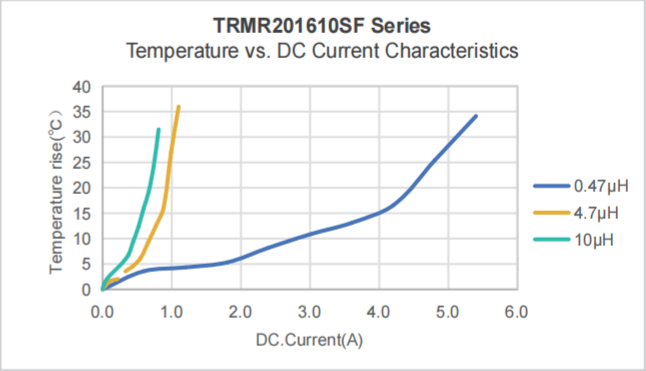
Notes

- All test data is referenced to 25 ℃ ambient.
- Isat: DC current at which the inductance drops approximate 30% from its value without current.
- Irms :DC current that will cause an approximate ΔT of 40 ℃(reference ambient temperature is 25 ℃).
- absolute maximum voltage: DC 25V.

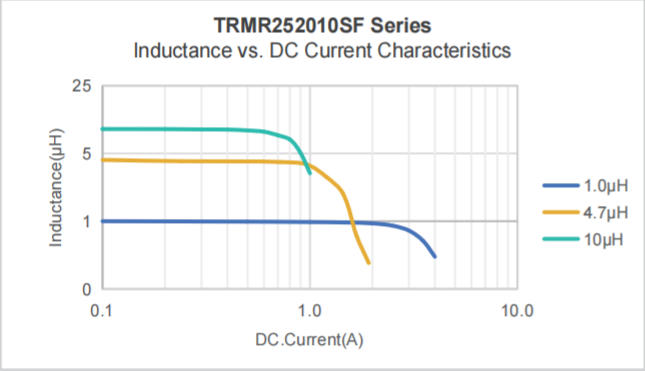
Typical Characteristics Curves

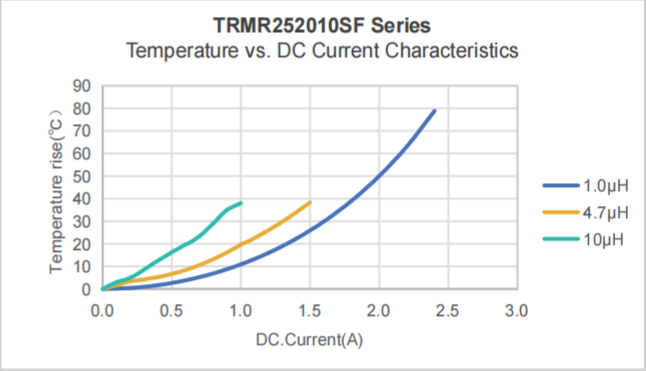
TRMR201610SF Series



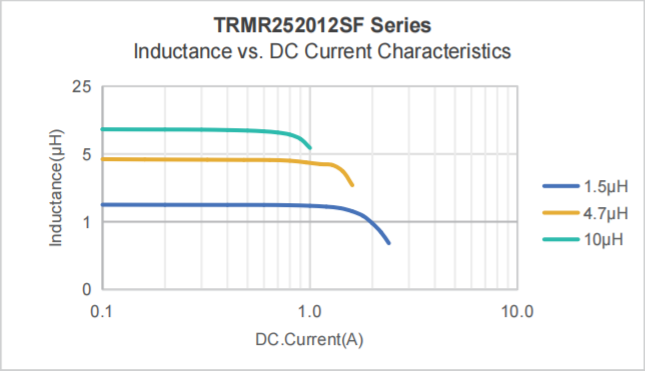


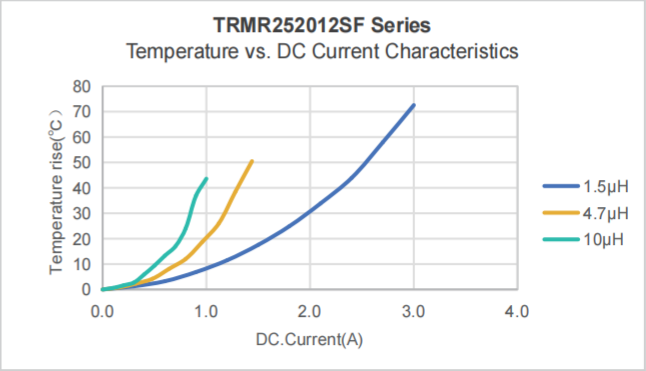
TRMR252010SF Series



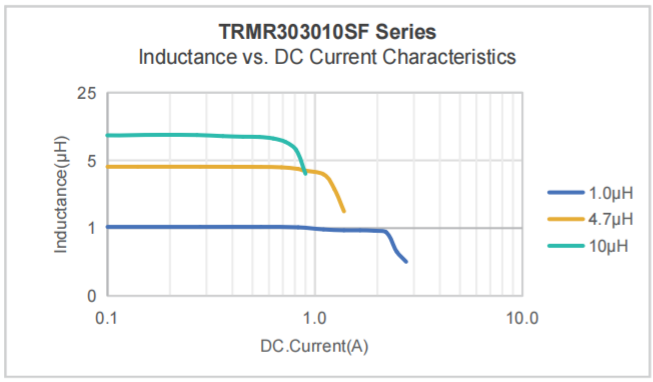


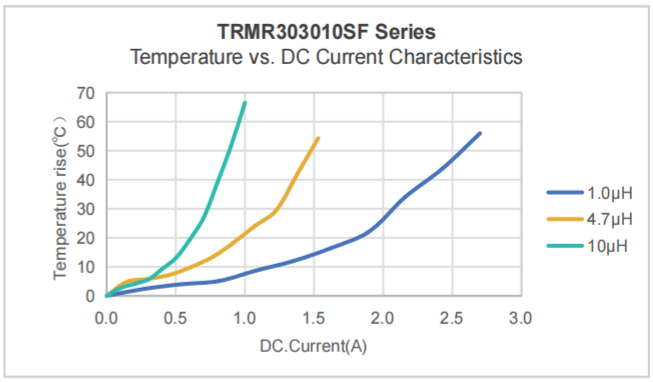
TRMR252012SF Series



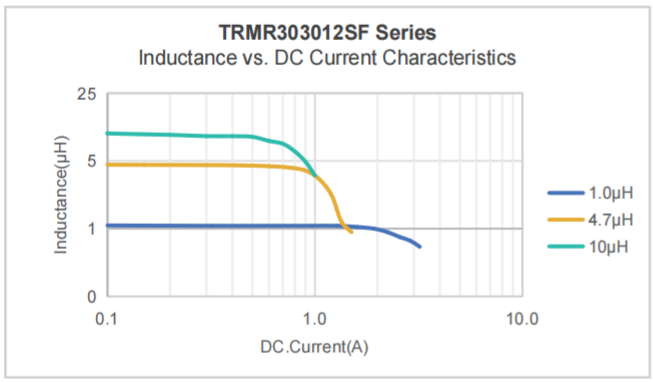


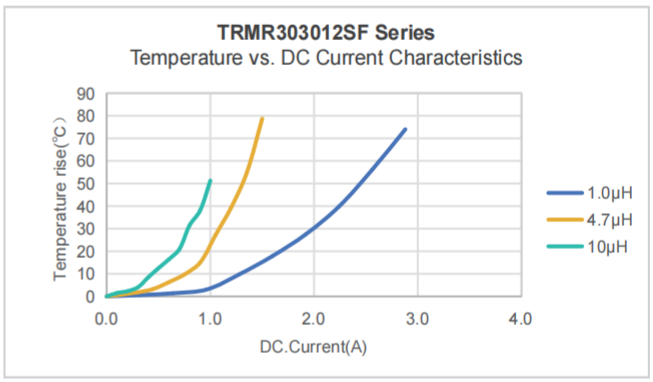
TRMR303010SF Series



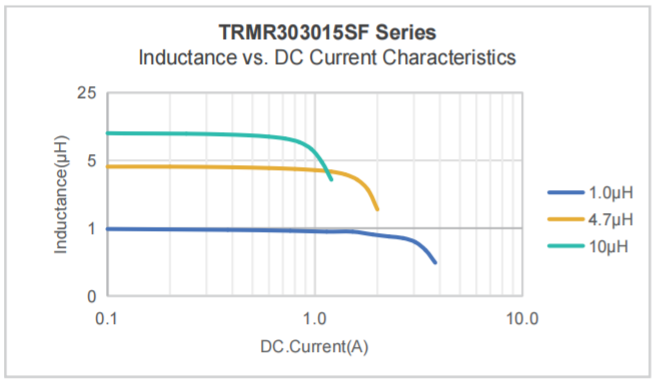


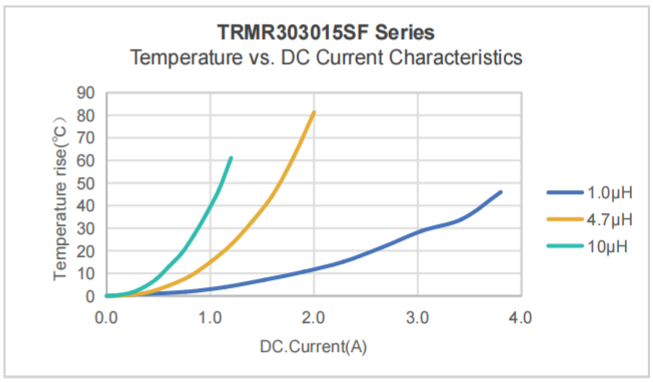
TRMR303012SF Series



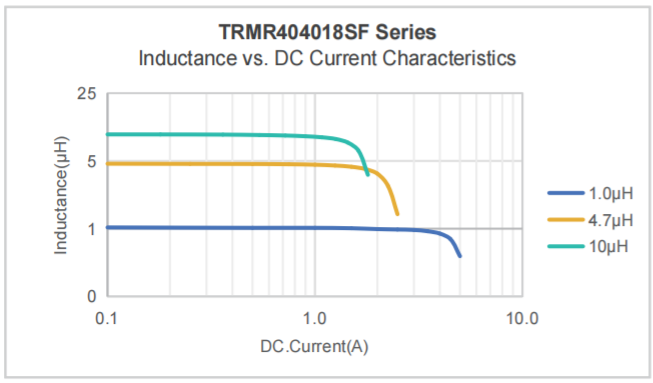


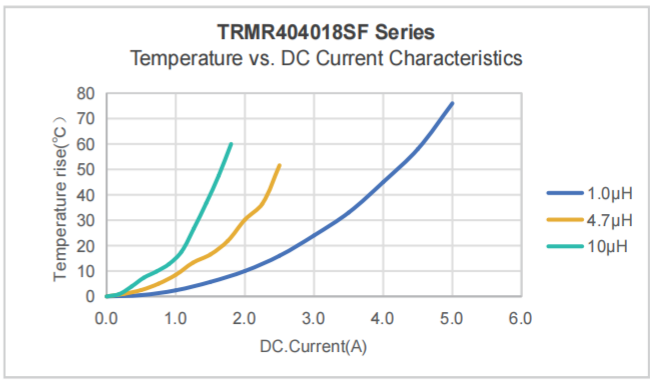
TRMR303015SF Series



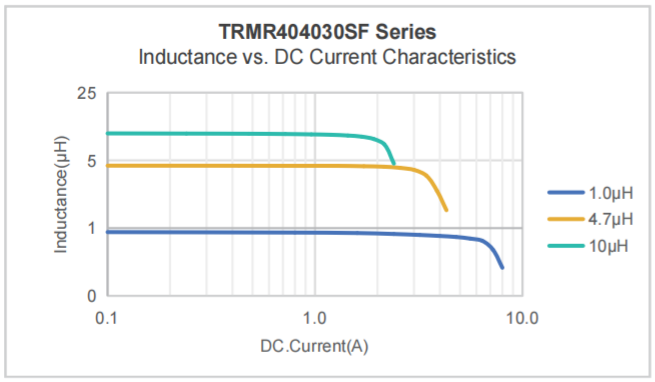


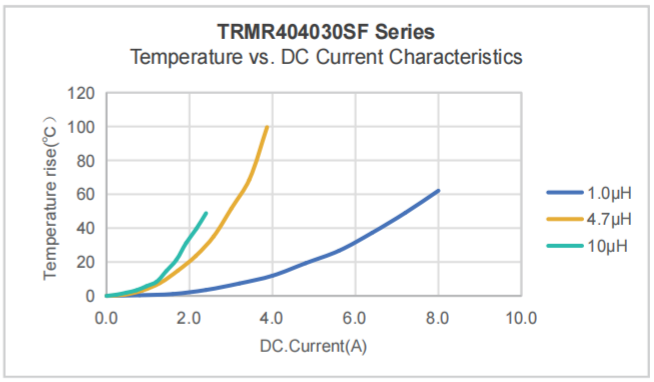
TRMR404018SF Series



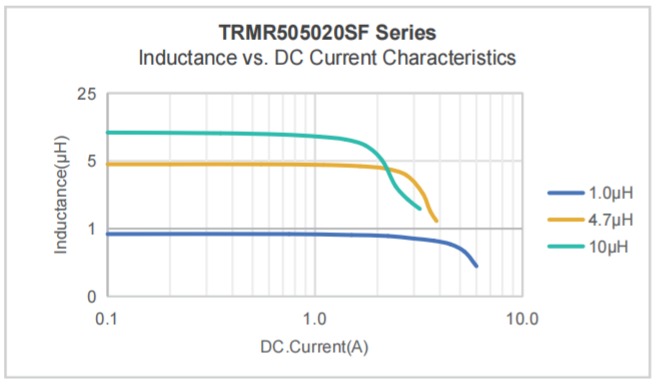


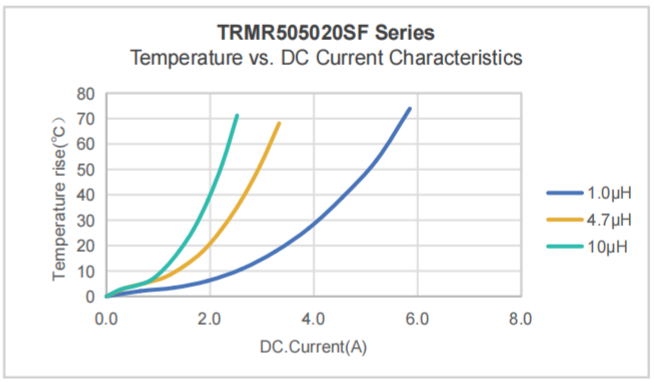
TRMR404030SF Series





TRMR505020SF Series





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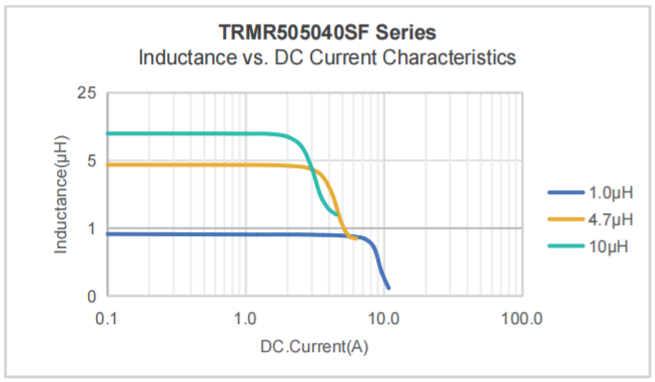
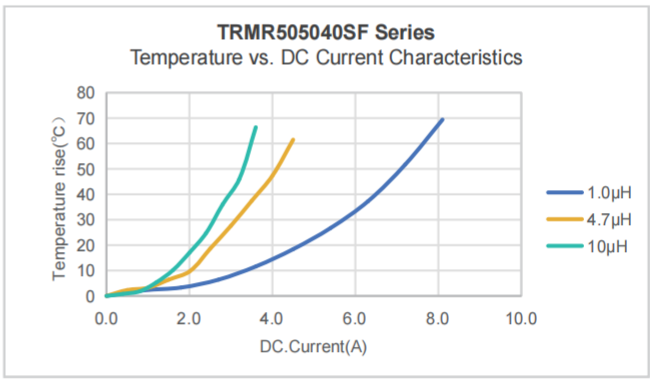
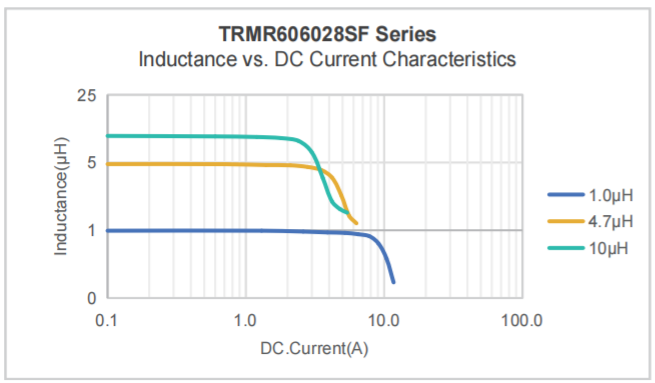
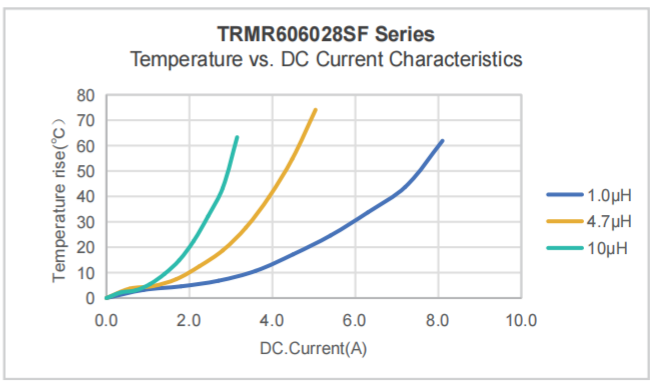




TRMR606028SF Series





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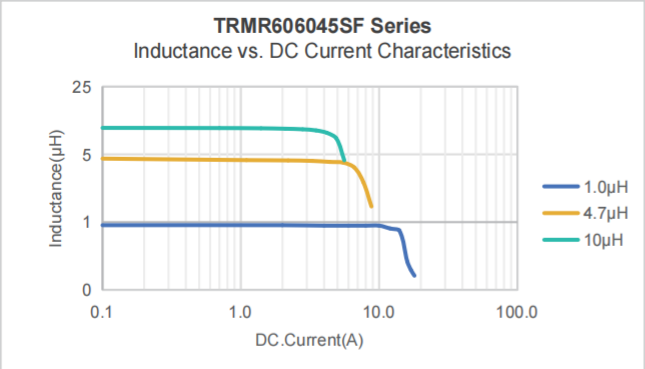
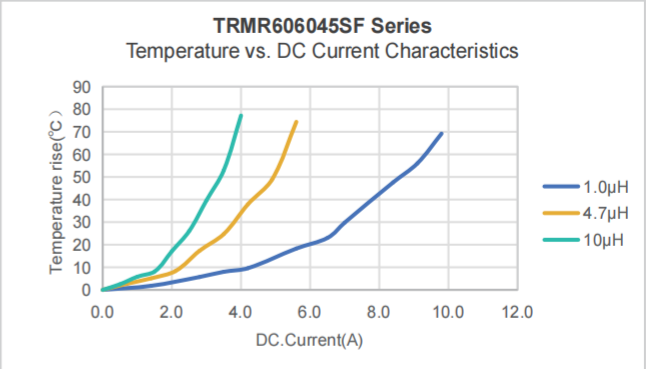
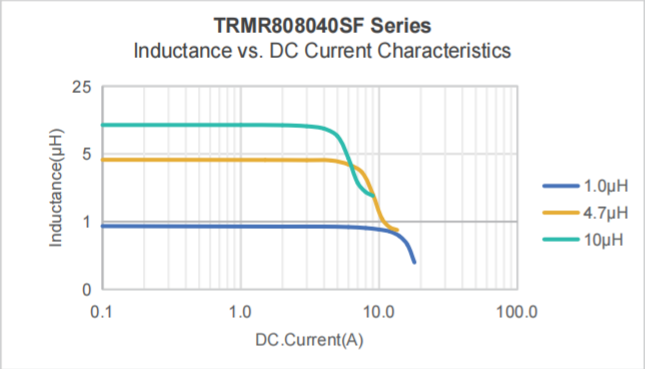
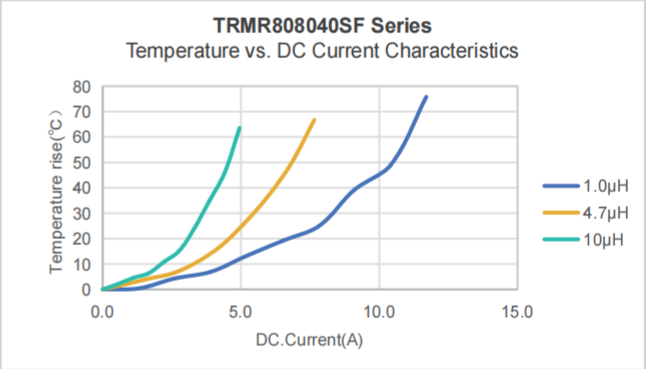




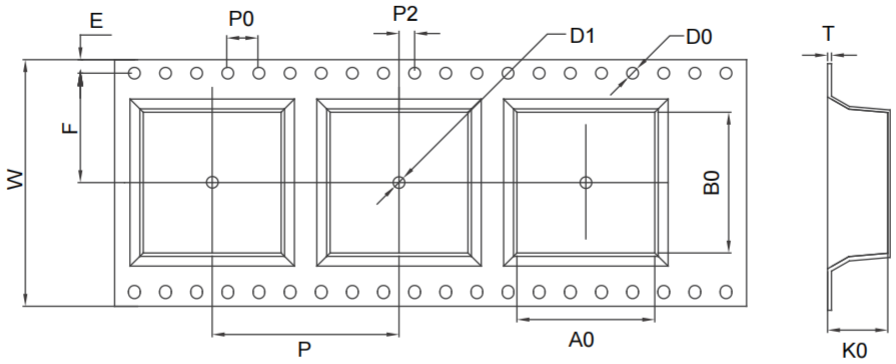
TRMR808040SF Series





Packaging Information

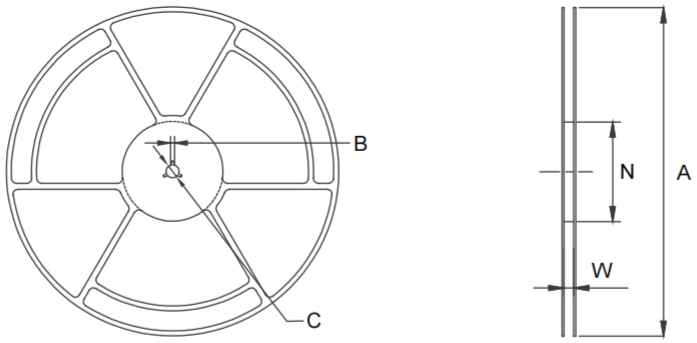
Tape Dimensions



Dimensions

Series	Tape dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TRMR201610SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.5+0.1/-0	/	/	1.9±0.05	2.2±0.05	1.2±0.05	1.75±0.1	3.5±0.05
TRMR252010SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.55±0.05	/	/	2.4+0.1/-0.05	3.0±0.1	1.4±0.1	1.75±0.1	3.5±0.05
TRMR252012SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.55±0.05	/	/	2.4+0.1/-0.05	3.0±0.1	1.4±0.1	1.75±0.1	3.5±0.05
TRMR303010SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	3.4	3.4	1.4	1.75±0.1	3.5±0.05
TRMR303012SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	3.4	3.4	1.5	1.75±0.1	3.5±0.05
TRMR303015SF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	3.4	3.4	1.5	1.75±0.1	3.5±0.05
TRMR404018SF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	4.4	4.4	2.2	1.75±0.1	3.5±0.05
TRMR404030SF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	4.4	4.4	2.2	1.75±0.1	3.5±0.05
TRMR505020SF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	5.3	5.3	2.2	1.75±0.1	3.5±0.05
TRMR505040SF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	5.4	5.4	4.3	1.75±0.1	3.5±0.05
TRMR606028SF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	6.4	6.4	3.2	1.75±0.1	3.5±0.05
TRMR606045SF	16.0±0.1	8.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	6.4	6.4	4.8	1.75±0.1	3.5±0.05
TRMR808040SF	16.0±0.1	12.0±0.1	4.0±0.1	2.0±0.05	1.5	/	/	8.4	8.4	4.3	1.75±0.1	3.5±0.05

Reel Dimensions



Dimensions

Series	Reel Dimensions (mm)					Quantity
	A	W	N	B	C	Reel
TRMR201610SF	179±1.0	10±1.5	58.1±1.0	/	13±1.5	2000PCS
TRMR252010SF	179±1.0	10±1.5	58.1±1.0	/	13±1.5	2000PCS
TRMR252012SF	179±1.0	10±1.5	58.1±1.0	/	13±1.5	2000PCS
TRMR303010SF	178	8.4	60	/	13	2000PCS
TRMR303012SF	178	8.4	60	/	13	2000PCS
TRMR303015SF	178	8.4	60	/	13	2000PCS
TRMR404018SF	330	12.4	100	/	13	4500PCS
TRMR404030SF	330	12.4	100	/	13	2000PCS
TRMR505020SF	330	12.4	100	/	13	2500PCS
TRMR505040SF	330	12.4	100	/	13	1500PCS
TRMR606028SF	330	12.4	100	/	13	2000PCS
TRMR606045SF	330	16.5	100	/	13	1500PCS
TRMR808040SF	330	16.5	100	/	13	1000PCS