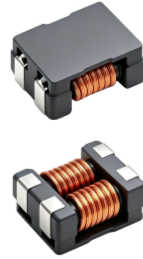


Wire-wound SMD Common Mode Choke-TRCM Series

This Wire-wound SMD Common Mode Choke features compact thin design, mini size and high integration. It provides high common-mode impedance in high frequency range, effectively suppressing high-speed line common-mode noise and improving system anti-interference ability.



Features

- High common-mode impedance at high frequency for excellent noise suppression.
- Compact, small size, thin profile.
- Lead-free, halogen-free, RoHS compliant.

Applications

- Power switches & servers
- Telecom applications
- USB communication
- LCD panel link

Operating Temp

- -40°C~+125°C

Product Identification

1	2	3	4	5	6	7
TRCM	454502	SF	XXX	X	T	X

1	Product Symbol
TRCM	Common mode choke

2	External Dimensions(mm)
454502	4.7*4.5*2.3
050503	5.0*4.5*2.5
070604	7.0*6.0*3.8
090705	9.0*7.0*4.8
100805	9.5*8.3*5.3
121106	12.0*10.8*6.5
121109	12.0*11.0*8.8
151307	15.0*13.0*6.6

3	Internal Code
SF	Ferrite

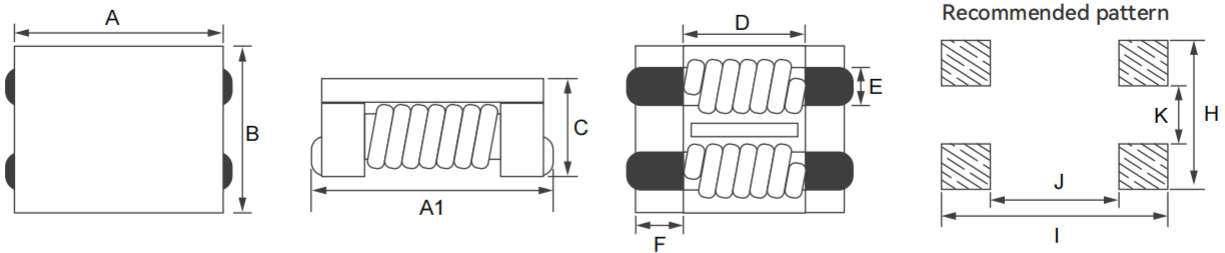
4	Nominal Impedance
200	20Ω
201	200Ω
202	2000Ω

5	Tolerance
Y	±25%
N	Nominal Inductance

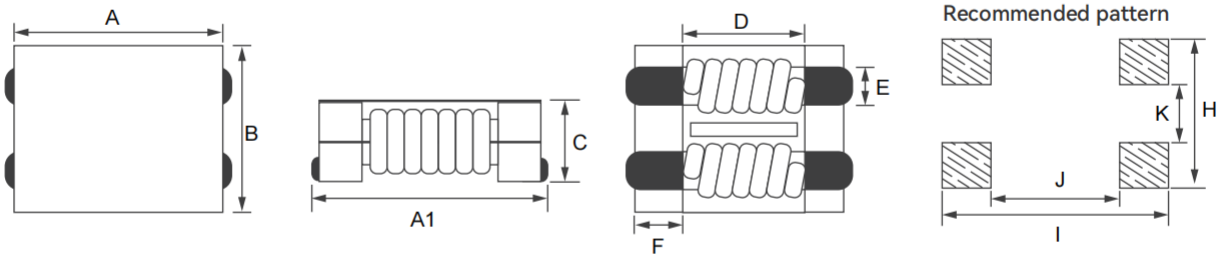
6	Packing
T	Tape Carrier Package

7	Internal Code
A	Standard
B	Special

Shape and Dimensions



Remark:TRCM454502SF~TRCM121106SF、TRCM151307SF



Remark:TRCM121109SF

Dimensions

Unit:mm

Series	A	A1	B	C	D	E	F	H	I	J	K
TRCM454502SF	4.7 ±0.5	5.2 ±0.5	4.5 ±0.5	2.3 Max	2.7 Typ	0.8 Typ	1.0 Typ	3.0 Typ	6.0 Typ	2.0 Typ	1.0 Typ
TRCM070604SF	7.0 ±0.5	7.5 ±0.5	6.0 ±0.5	3.8 Max	3.5 Typ	1.5 Typ	1.7 Typ	5.0 Typ	8.0 Typ	3.0 Typ	1.5 Typ
TRCM090705SF	9.0 ±0.5	9.5 ±0.5	7.0 ±0.5	4.8 Max	5.6 Typ	1.5 Typ	1.7 Typ	5.5 Typ	10.5 Typ	5.0 Typ	1.5 Typ
TRCM121106SF	12.0 ±0.5	12.5 ±0.5	10.8 ±0.5	6.5 Max	7.0 Typ	2.7 Typ	2.5 Typ	8.5 Typ	12.5 Typ	6.5 Typ	2.0 Typ
TRCM121109SF	12.0 ±0.5	12.5 ±0.5	11.0 ±0.5	8.8 Max	7.0 Typ	2.7 Typ	2.5 Typ	8.5 Typ	12.5 Typ	6.5 Typ	2.0 Typ
TRCM151307SF	15.0 ±0.5	15.6 ±0.5	13.0 ±0.5	6.6 Max	9.4 Typ	2.6 Typ	2.5 Typ	9.5 Typ	16.0 Typ	8.8 Typ	3.3 Typ

Remarks:

Series	Shape	Inductance
TRCM151307SF	Bifilar	TRCM151307SF 101NTB/TRCM151307SF 301NTB/TRCM151307SF 551NTB

Specification

TRCM454502SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(mΩ)	I _{rms} (A)	V _{dc} (V)	IR(MΩ)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM454502SF900NTA	60	90.00	35.00	3.20	50.00	10.00	@100MHz
TRCM454502SF151NTA	90	150.00	40.00	3.10	50.00	10.00	@100MHz
TRCM454502SF231NTA	180	230.00	45.00	3.00	50.00	10.00	@100MHz
TRCM454502SF301NTA	200	300.00	45.00	3.00	50.00	10.00	@100MHz
TRCM454502SF401NTA	300	420.00	50.00	2.50	50.00	10.00	@100MHz
TRCM454502SF421NTA	350	420.00	50.00	2.50	50.00	10.00	@100MHz
TRCM454502SF501NTA	300	500.00	55.00	2.40	50.00	10.00	@100MHz
TRCM454502SF701NTA	500	700.00	59.00	2.20	50.00	10.00	@100MHz
TRCM454502SF901NTA	650	900.00	68.00	2.10	50.00	10.00	@100MHz
TRCM454502SF102NTA	800	1000.00	68.00	2.10	50.00	10.00	@100MHz
TRCM454502SF122NTA	1000	1200.00	74.00	2.00	50.00	10.00	@100MHz
TRCM454502SF142NTA	1200	1400.00	81.00	1.90	50.00	10.00	@100MHz
TRCM454502SF202NTA	1500	2000.00	120.00	1.60	50.00	10.00	@100MHz
TRCM454502SF302NTA	1800	3000.00	130.00	1.40	50.00	10.00	@100MHz

TRCM070604SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(m Ω)	I _{rms} (A)	V _{dc} (V)	IR(M Ω)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM070604SF400NTA	40	70.00	5.00	15.00	125.00	10.00	@100MHz
TRCM070604SF101NTA	100	140.00	10.00	9.00	125.00	10.00	@100MHz
TRCM070604SF301NTA	225	300.00	10.00	5.00	125.00	10.00	@100MHz
TRCM070604SF351NTA	275	350.00	10.00	5.00	125.00	10.00	@100MHz
TRCM070604SF501NTA	275	450.00	10.00	5.00	125.00	10.00	@100MHz
TRCM070604SF601NTA	500	700.00	15.00	4.00	125.00	10.00	@100MHz
TRCM070604SF701NTA	500	700.00	15.00	4.00	125.00	10.00	@100MHz
TRCM070604SF102NTA	800	1000.00	17.00	3.00	125.00	10.00	@100MHz
TRCM070604SF132NTA	910	1300.00	21.00	2.50	125.00	10.00	@100MHz
TRCM070604SF152NTA	1300	1500.00	21.00	2.50	125.00	10.00	@100MHz
TRCM070604SF222NTA	1400	2200.00	63.00	1.20	125.00	10.00	@100MHz
TRCM070604SF272NTA	2000	2700.00	63.00	1.00	125.00	10.00	@100MHz
TRCM070604SF302NTA	2500	3000.00	75.00	0.90	125.00	10.00	@100MHz
TRCM070604SF402NTA	3300	4000.00	100.00	0.80	125.00	10.00	@100MHz

TRCM090705SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(m Ω)	I _{rms} (A)	V _{dc} (V)	IR(M Ω)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM090705SF301NTA	225	300.00	6.00	6.00	80.00	10.00	@100MHz
TRCM090705SF501NTA	450	600.00	8.00	5.50	80.00	10.00	@100MHz
TRCM090705SF601NTA	500	700.00	10.00	5.00	80.00	10.00	@100MHz
TRCM090705SF701NTA	500	700.00	10.00	5.00	80.00	10.00	@100MHz
TRCM090705SF102NTA	750	1000.00	13.00	4.00	80.00	10.00	@100MHz
TRCM090705SF152NTA	1200	1500.00	15.00	4.00	80.00	10.00	@100MHz
TRCM090705SF222NTA	1700	2200.00	50.00	3.00	80.00	10.00	@100MHz
TRCM090705SF272NTA	2000	2700.00	80.00	2.00	80.00	10.00	@100MHz
TRCM090705SF302NTA	2500	3000.00	85.00	1.90	80.00	10.00	@100MHz
TRCM090705SF402NTA	3300	4000.00	100.00	1.80	80.00	10.00	@20~50MHz

TRCM121106SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(m Ω)	I _{rms} (A)	V _{dc} (V)	IR(M Ω)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM121106SF800NTA	80	230.00	2.50	10.00	125.00	10.00	@100MHz
TRCM121106SF301NTA	200	300.00	4.00	9.00	125.00	10.00	@100MHz
TRCM121106SF501NTA	300	500.00	5.50	8.00	125.00	10.00	@100MHz
TRCM121106SF701NTA	500	700.00	6.00	8.00	125.00	10.00	@100MHz
TRCM121106SF801NTA	600	800.00	8.00	8.00	125.00	10.00	@100MHz
TRCM121106SF102NTA	750	1000.00	14.00	6.00	125.00	10.00	@100MHz
TRCM121106SF152NTA	1000	1500.00	21.00	4.50	125.00	10.00	@100MHz
TRCM121106SF172NTA	1200	1700.00	21.00	4.80	125.00	10.00	@100MHz
TRCM121106SF222NTA	2200	2500.00	35.00	1.80	125.00	10.00	@10MHz
TRCM121106SF272NTA	2300	2700.00	50.00	1.50	125.00	10.00	@10MHz

TRCM121109SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(m Ω)	I _{rms} (A)	V _{dc} (V)	IR(M Ω)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM121109SF152NTA	1000	1500.00	26.00	5.50	125.00	10.00	@2.52MHz
TRCM121109SF172NTA	1100	1700.00	26.00	5.50	125.00	10.00	@2.52MHz
TRCM121109SF202NTA	1300	2000.00	33.00	4.50	125.00	10.00	@2.52MHz
TRCM121109SF222NTA	1400	2200.00	43.00	4.00	125.00	10.00	@2.52MHz
TRCM121109SF332NTA	2100	3300.00	120.00	3.00	125.00	10.00	@2.52MHz
TRCM121109SF532NTA	3700	5300.00	149.00	2.50	125.00	10.00	@2.52MHz
TRCM121109SF782NTA	5400	7800.00	182.00	2.00	125.00	10.00	@2.52MHz

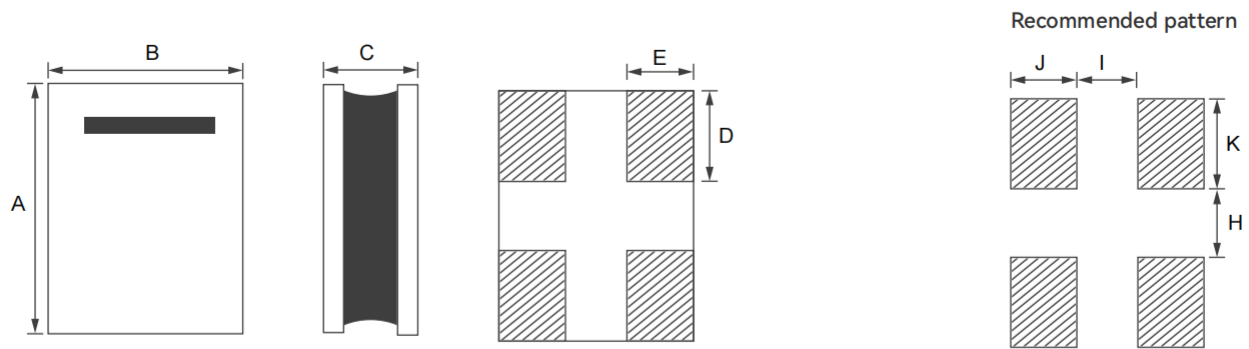
TRCM151307SF Series

Part Number	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)		DCR(m Ω)	I _{rms} (A)	V _{dc} (V)	IR(M Ω)	
	Min.	Typ.	Max.	Max.	Max.	80V/3S Min.	
TRCM151307SF101NTB	100	190.00	3.50	20.00	125.00	10.00	@100MHz
TRCM151307SF301NTA	225	300.00	5.00	13.00	125.00	10.00	@100MHz
TRCM151307SF301NTB	225	300.00	4.00	15.00	125.00	10.00	@100MHz
TRCM151307SF501NTA	400	500.00	6.00	10.00	125.00	10.00	@100MHz
TRCM151307SF551NTA	400	550.00	6.00	10.00	125.00	10.00	@100MHz
TRCM151307SF551NTB	400	550.00	5.00	12.00	125.00	10.00	@100MHz
TRCM151307SF601NTA	500	600.00	7.00	10.00	125.00	10.00	@100MHz
TRCM151307SF701NTA	500	700.00	7.00	10.00	125.00	10.00	@100MHz
TRCM151307SF102NTA	800	1000.00	10.00	9.00	125.00	10.00	@100MHz
TRCM151307SF152NTA	1200	1500.00	23.00	8.00	125.00	10.00	@100MHz
TRCM151307SF232NTA	1800	2300.00	11.00	7.00	125.00	10.00	@50MHz
TRCM151307SF302NTA	2500	3000.00	75.00	4.00	125.00	10.00	@50MHz

Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature Range (Self-temperature rise is included): -40 to +125°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

Shape and Dimensions



Dimensions

Unit:mm

Series	A	B	C	D	E	H	I	J	K
TRCM050503SF	5.0±0.3	4.5±0.3	2.5Max	1.6 ±0.3	1.40±0.3	1.5 Ref	1.2 Ref	1.8 Ref	2.0 Ref

Specification

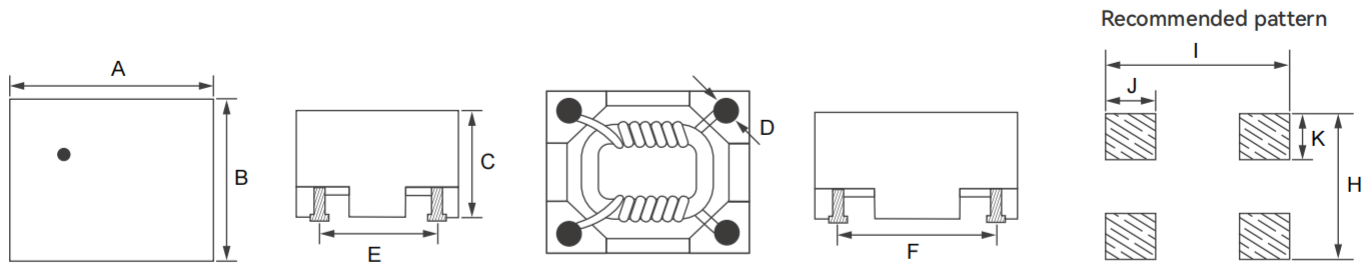
TRCM050503SF Series

Part Number	Impedance	DC Resistance	Rated Current	Rated Voltage	Insulation Resistance	Test Frequency
	Z(Ω)	DCR(mΩ)	I _{rms} (A)	V _{dc} (V)	IR(MΩ)	
	Typ.	±40%	Max.	Max.	50V/3S Min.	
TRCM050503SF 101NTA	100	9.00	6.00	50.00	10.00	@100MHz
TRCM050503SF 251NTA	250	14.00	5.00	50.00	10.00	@100MHz
TRCM050503SF 501NTA	500	19.00	4.00	50.00	10.00	@100MHz
TRCM050503SF 601NTA	600	20.00	3.90	50.00	10.00	@100MHz
TRCM050503SF 102NTA	1000	24.00	3.00	50.00	10.00	@100MHz
TRCM054503SF 142NTA	1400	40.00	1.50	50.00	10.00	@100MHz
TRCM054503SF 152NTA	1500	40.00	1.50	50.00	10.00	@100MHz

Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature Range (Self-temperature rise is included): -40 to +125°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

Shape and Dimensions



Dimensions

Unit:mm

Series	A	B	C	D	E	F	H	I	J	K
TRCM100805SF	9.5±0.3	8.3±0.3	5.3 Max	Ø1.2 Typ	6.3 Typ	7.5 Typ	8.9	10.3	2.7	2.7

Specification

TRCM100805SF Series

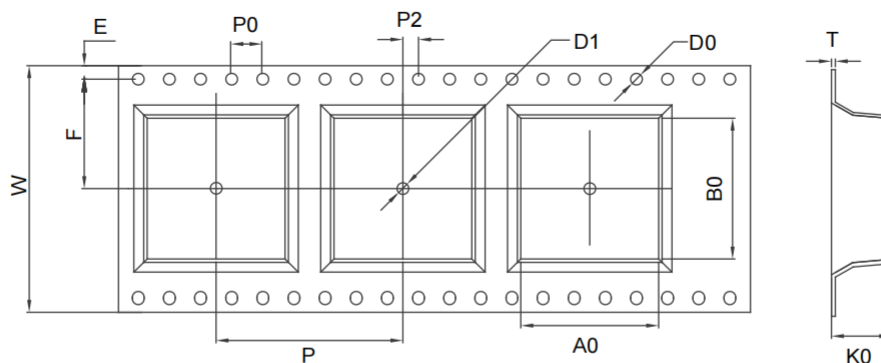
Part Number	Impedance	Inductance	Ls	DC Resistance	Rated Current	Rated Voltage	Hi-Pot	L Test Frequency
	Z(Ω)@100MHz	L(μH)	(nH)	DCR(mΩ)	I _{rms} (A)	V _{dc} (V)	(V _{dc})	
	±25%	/	Typ.	Max.	Max.	Max.	3mA/3S	
TRCM100805SF201NTA	200Typ.	2	450.00	5.00	7.00	80	500	@100KHz/0.1V
TRCM100805SF501Y TA	500	5	570.00	6.50	5.00	80	500	@100KHz/0.1V
TRCM100805SF801Y TA	800	9	970.00	11.00	3.50	80	500	@100KHz/0.1V
TRCM100805SF102Y TA	1000	11	1300.00	30.00	2.50	80	500	@100KHz/0.1V
TRCM100805SF202Y TA	2200	30	3500.00	60.00	1.40	80	500	@100KHz/0.1V

Notes

- Rated Current: Temp.rise 40°C Typ.
- Operating Temperature Range (Self-temperature rise is included): -40 to +125°C.
- Storage Temperature: 15°C up to 25°C, 65% RH max.
- The temperature of electrical characteristic test is 25°C indoor temperature.

Packaging Information

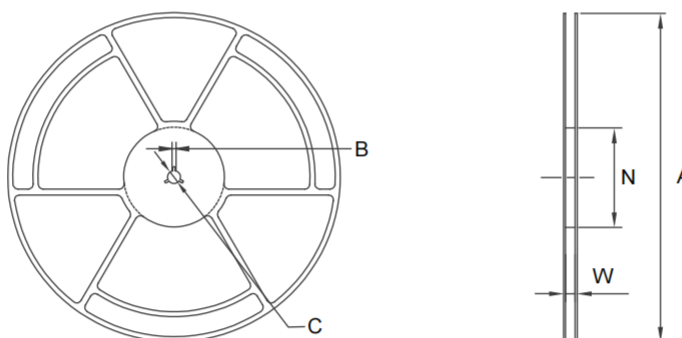
Tape Dimensions



Dimensions

Series	Tape dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TRCM454502SF	12	8	4	2	1.5	/	/	5.2	5.5	2.5	1.75	/
TRCM054503SF	12	8	4	2	1.5	/	/	/	/	/	1.75	/
TRCM070604SF	16	12	4	2	1.5	1.6	0.4	6.5	8.0	4.0	1.75	7.5
TRCM090705SF	24	16	4	2	1.5	/	/	7.7	10.7	5.0	1.75	/
TRCM100805SF	24	12	4	2	1.5	/	/	/	/	/	1.75	/
TRCM121106SF	24	16	4	2	1.5	/	/	11.4	13.0	6.6	1.75	/
TRCM121109SF	24	16	4	2	1.5	/	/	11.3	13.0	8.5	1.75	/
TRCM151307SF	24	20	4	2	1.5	/	/	14	16.5	7.0	1.75	/

Reel Dimensions



Dimensions

Series	Reel Dimensions (mm)					Quantity
	A	W	N	B	C	
TRCM454502SF	178	12.4	60	/	13.5	100pcs/Reel
TRCM054503SF	330	/	100	/	1.30	2500pcs/Reel
TRCM070604SF	330	16.4	100	2.0±0.5	13	1500pcs/Reel
TRCM090705SF	330	24.5	100	/	13	700pcs/Reel
TRCM100805SF	330	/	100	/	13	1000pcs/Reel
TRCM121106SF	330	24.5	100	/	13	500pcs/Reel
TRCM121109SF	330	24.5	100	/	13	500pcs/Reel
TRCM151307SF	330	24.4	100	/	13	350pcs/Reel