

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.

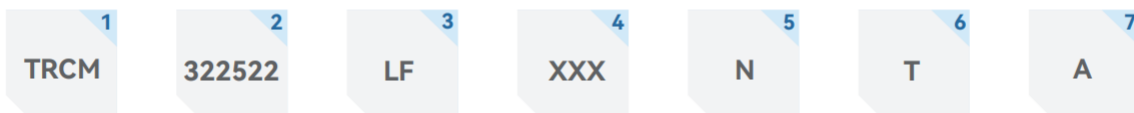
Applications

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

Operating Temp

- -40°C~+125°C

Product Identification



1	Product Symbol
TRCM	Common mode choke

3	Internal Code
LF	Ferrite(Inductance)

5	Tolerance
N	+50%/-30%

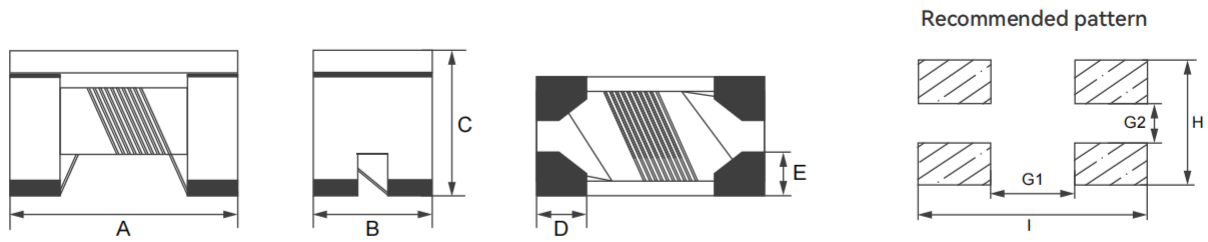
7	Internal Code
A	Standard

2	External Dimensions(mm)
322522	3.2*2.5*2.2
453228	4.5*3.2*2.8

4	Nominal Inductance
110	11μH
101	100μH

6	Packing
T	Tape Carrier Package

Shape and Dimensions



Dimensions

Unit:mm

Series	A	B	C	D	E	H	I	G1	G2
TRCM322522LF	3.2±0.2	2.5±0.2	2.2±0.2	0.75TYP	0.9TYP	2.5	3.7	2.0	0.6
TRCM453228LF	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.1	1.2±0.1	3.8	4.8	2.5	0.7

Specification

TRCM322522LF Series

Part Number	Inductance	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance
	L (μH)@100kHz	Z(Ω)@10MHz		DCR(mΩ)	Irms(mA)	V(Vdc)	IR(MΩ)
	+50%/-30%	Min.	Typ.	Max.	Max.	Max.	Min.
TRCM322522LF110NTA	11	300.00	550.00	400.00	300.00	50.00	10
TRCM322522LF220NTA	22	500.00	1100.00	500.00	250.00	50.00	10
TRCM322522LF510NTA	51	1000.00	2600.00	700.00	200.00	50.00	10
TRCM322522LF101NTA	100	2200.00	5100.00	1500.00	150.00	50.00	10
TRCM322522LF201NTA	200	5000.00	10000.00	5800.00	70.00	50.00	10

TRCM453228LF Series

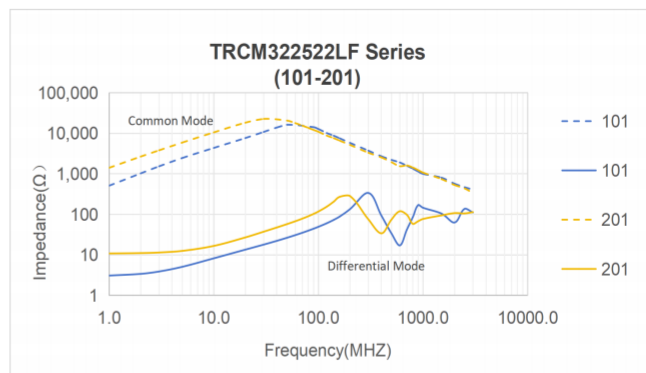
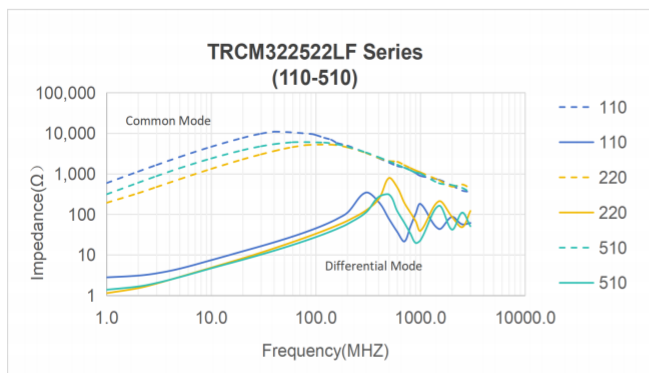
Part Number	Inductance	Impedance		DC Resistance	Rating Current	Rated Voltage	Insulation Resistance
	L (μH)@100kHz	Z(Ω)@10MHz		DCR(mΩ)	Irms(mA)	V(Vdc)	IR(MΩ)
	+50%/-30%	Min.	Typ.	Max.	Max.	Max.	Min.
TRCM453228LF110NTA	11	300.00	600.00	400.00	400.00	50.00	10
TRCM453228LF220NTA	22	500.00	1200.00	600.00	300.00	50.00	10
TRCM453228LF510NTA	51	1000.00	2800.00	900.00	250.00	50.00	10
TRCM453228LF101NTA	100	2000.00	5800.00	1800.00	200.00	50.00	10
TRCM453228LF201NTA	200	5000.00	11000.00	4500.00	120.00	50.00	10

Notes

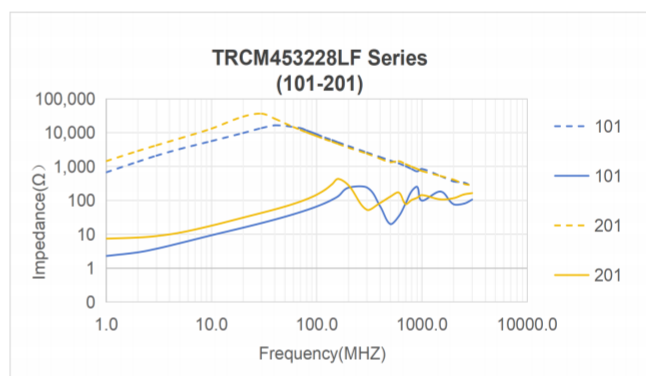
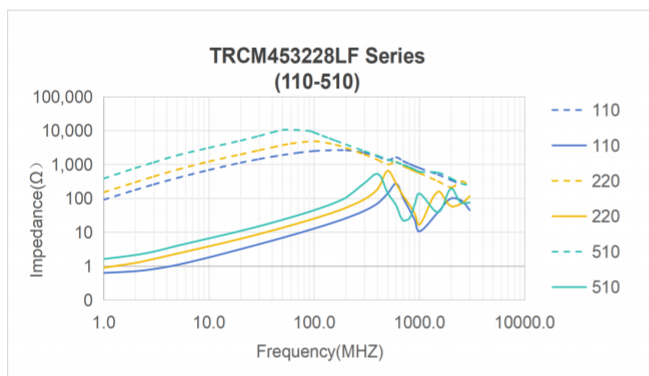
- All test data is referenced to 25 °C ambient.
- Operating temperature range -40 °C to + 125°C (Including self - temperature rise) .
- Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C).
- The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions. all affect the part temperature. Part temperature should be verified in the end application.

Typical Characteristics Curves

TRCM322522LF Series

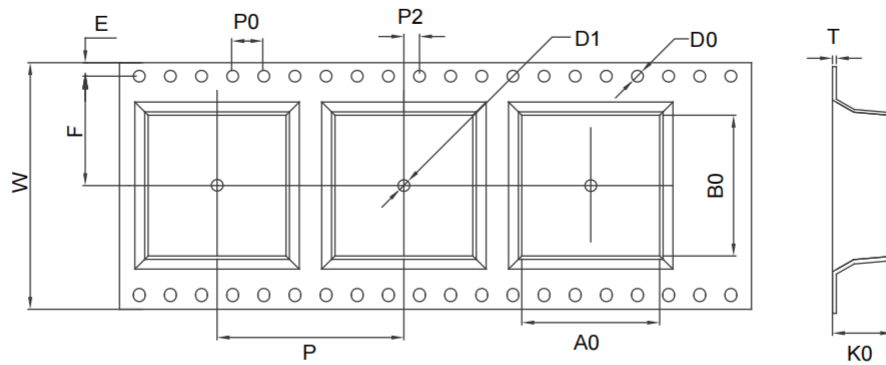


TRCM453228LF Series



Packaging Information

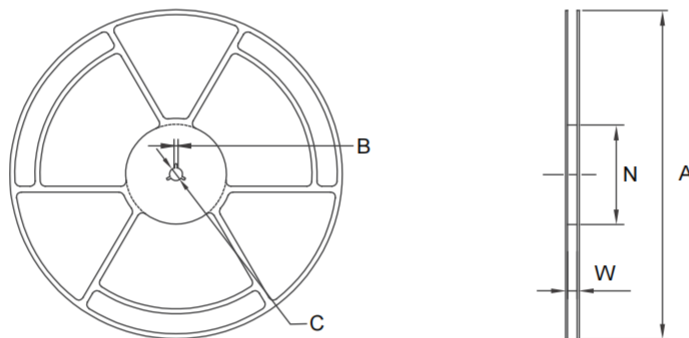
Tape Dimensions



Dimensions

Series	Tape dimensions (mm)											
	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
TRCM322522LF	8.0±0.1	4.0±0.1	4.0±0.1	2.0±0.1	1.55±0.05	0.6±0.05	0.26±0.05	2.85±0.1	3.65±0.1	2.55±0.1	1.75±0.1	3.5±0.1
TRCM453228LF	12.0±0.1	8.0±0.1	4.0±0.1	2.0±0.1	1.55±0.05	1.55±0.05	0.30±0.05	3.55±0.1	4.85±0.1	3.05±0.1	1.75±0.1	5.5±0.1

Reel Dimensions



Dimensions

Series	Reel Dimensions (mm)					Quantity Reel
	A	W	N	B	C	
TRCM322522LF	179±1.0	10.0±1.5	58.1±1.0	2.3±0.3	13.0±1.5	1500 pcs / Reel
TRCM453228LF	330±2.0	12.8±0.5	97.0±0.5	2.3±0.3	13.0±0.2	2000 pcs / Reel