

# TLDCM4745 Series

DC COMMON MODE FILTER

TOP-EMC

## Generls

This specification covers the engineering requirements for the TLDCM4745 Series (DC Common Mode Filter)

## Features

- A chip-type common mode filter for large current applications. Noise is greatly suppressed.
- Height and size have been considered, resulting in a compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.
- The products contain no lead and also support lead-free soldering.
- This product does not contain regulated substances that are slated to be included in RoHS.

## Applications

Used for power line noise suppression for any electronic devices  
Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc

## Part Number System

<u>TLDCM</u>	<u>4745</u>	<u>-2</u>	<u>-231</u>	<u>T</u>	<u>F</u>
①	②	③	④	⑤	⑥

- ① Type: TLDCM
- ② External Dimensions (L×W) (mm) : 4.7×4.5mm
- ③ Number of Lines : 2
- ④ Impedance : 231=230Ω
- ⑤ Packing: Tape & Reel
- ⑥ Hazardous Substance Free Products : F

## Electrical Characteristics

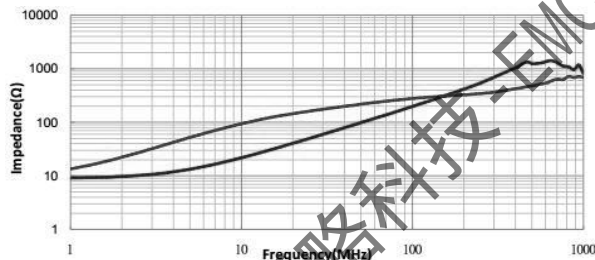
Part Number	Common Mode Impedance @100MHz	Max. DC Resistance	Max. Rated Current	Max.Rated Voltage	Min. Insulation Resistance
Units 单位	$\Omega$	m $\Omega$	A	Volts	M $\Omega$
Symbol 符号	Z	DCR	I <sub>r</sub>	V <sub>DC</sub>	IR
TLDCM4745-2-231TF	230	45	3.0	50	10
TLDCM4745-2-301TF	300	45	3.0	50	10
TLDCM4745-2-102TF	1000	68	2.1	50	10

NOTE:

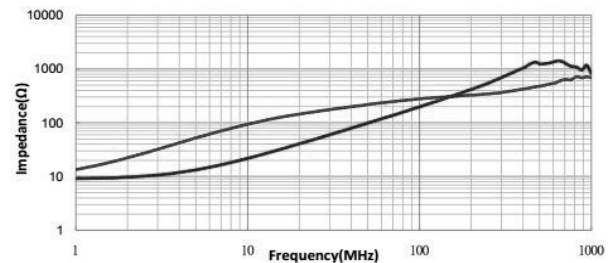
- (1). Rated Current: Temp. rise 40°C Typ
- (2). Operating Temperature:-40°C up to +125°C
- (3). Storage Temperature:-20°C up to +40°C, 75% RH max.

## Typical Electrical Characteristics Impedance Vs.Frequency Characteristics

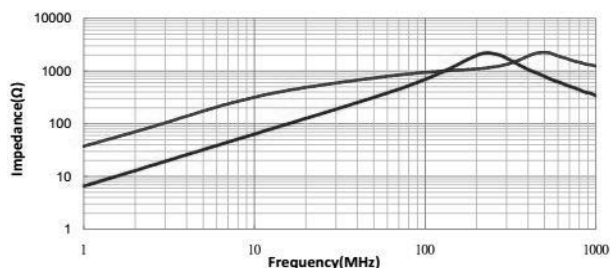
TLDCM4745-2-231TF



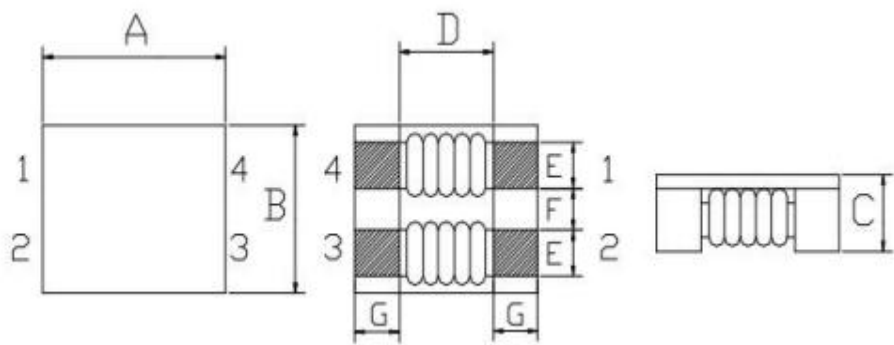
TLDCM4745-2-301TF



TLDCM4745-2-102TF



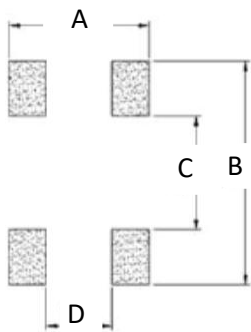
Configuration and Dimensions



Dimensions in mm

TYPE	TLDCM4745
A	4.7±0.5
B	4.5±0.5
C	2.0Max
D	2.7Typ
E	0.8Typ
F	1.25Typ
G	1.0Typ

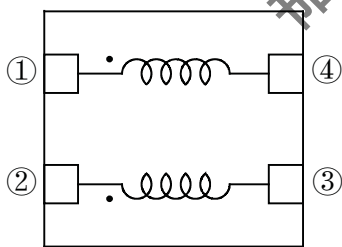
Recommended Land Pattern



Dimensions in mm

TYPE	A	B	C	D
TLDCM4745	3.0	6.0	2.0	1.0

Schematics (Bottom)



CONTACT INFORMATION

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