

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.
- Compliant with AEC-Q200.

Applications

Used for power line noise suppression for any electronic devices
Used to counter adapter/battery line noise for relatively large electronic devices, including automotive power trains and safety applications.

Part Number System

TLDCM **4745** **-2** **-301** **T** **F** **-TA**
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type : TLDCM
- ② External Dimensions (L×W)(mm) : 4.7mm×4.5mm
- ③ Number of Lines : 2
- ④ Impedance : 301=300Ω
- ⑤ Packing : Tape & Reel
- ⑥ Hazardous Substance Free Products : F
- ⑦ Design Code : TA

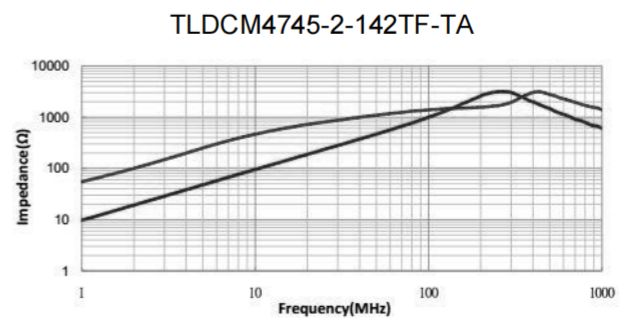
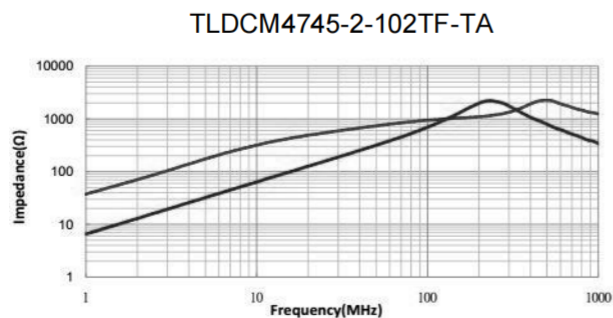
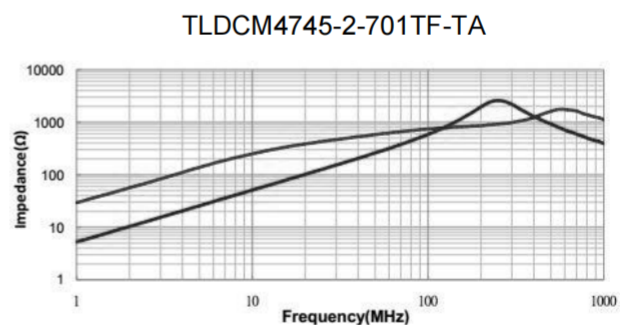
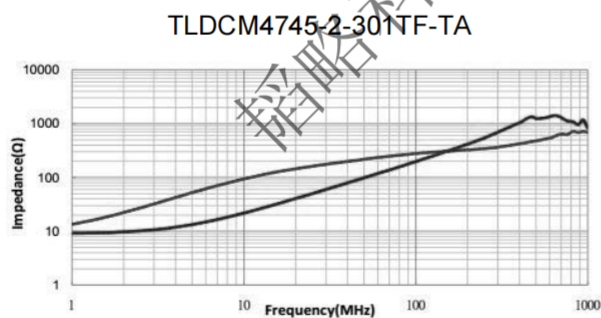
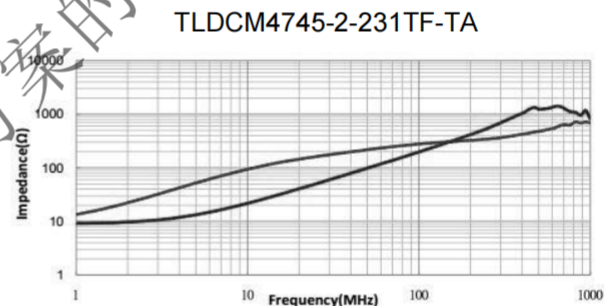
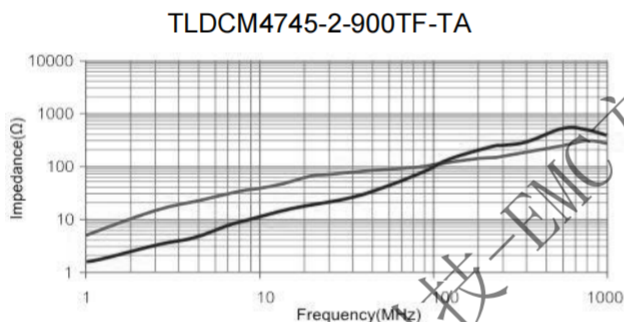
Electrical Characteristics

Part Number	Common Mode Impedance @100MHz		Max. DC Resistance	Max. Rated Current	Max. Rated Voltage	Min. Insulation Resistance
Units 单位	Ω		m Ω	A	Volts	M Ω
Symbol 符号	Z		DCR	I _r	V _{DC}	IR
TLDCM4745-2-900TF-TA	30(min)	90(Typ)	35	3.2	50	10
TLDCM4745-2-231TF-TA	180(min)	230(Typ)	45	3.0	50	10
TLDCM4745-2-301TF-TA	200(min)	300(Typ)	45	3.0	50	10
TLDCM4745-2-701TF-TA	500(min)	700(Typ)	59	2.2	50	10
TLDCM4745-2-102TF-TA	800(min)	1000(Typ)	68	2.1	50	10
TLDCM4745-2-142TF-TA	1200(min)	1400(Typ)	81	1.9	50	10

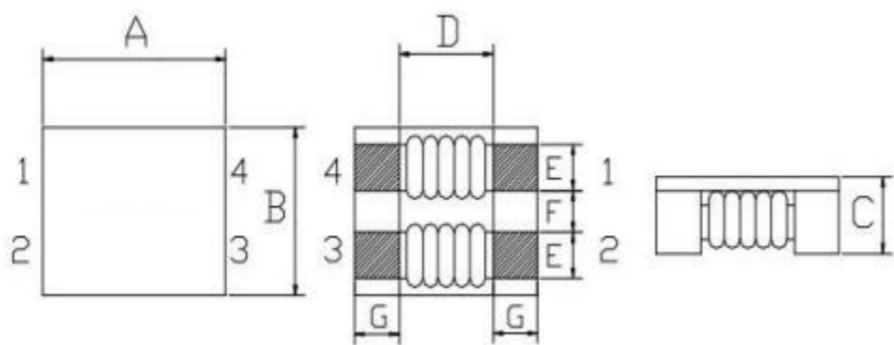
NOTE:

- (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



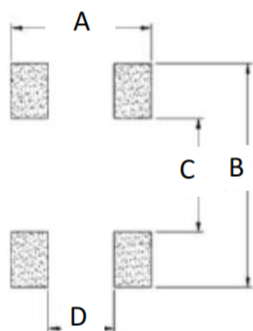
Configuration and Dimensions



Dimensions in mm

TYPE	TLDCM4745
A	4.7±0.5
B	4.5±0.5
C	2.4Max
D	2.7Typ
E	0.75Typ
F	1.258Typ
G	1.0Typ

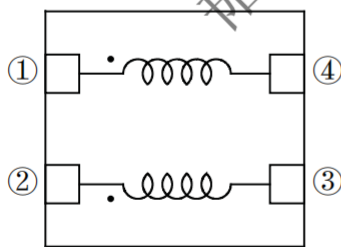
Recommended Land Pattern



Dimensions in mm

TYPE	A	B	C	D
TLDCM4745	3.0	6.0	2.0	0.9

Schematics (Bottom)



CONTACT INFORMATION

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