

TLDCM9070 Series

DC COMMON MODE FILTER

Generals

This specification covers the engineering requirements for the TLDCM9070 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

Temperature Ranges

Operating	-40 to +125°C
Storage(after amount)	-50 to +155°C

Part Number System

TLDCM 9070 -2 -701 T F
① ② ③ ④ ⑤ ⑥

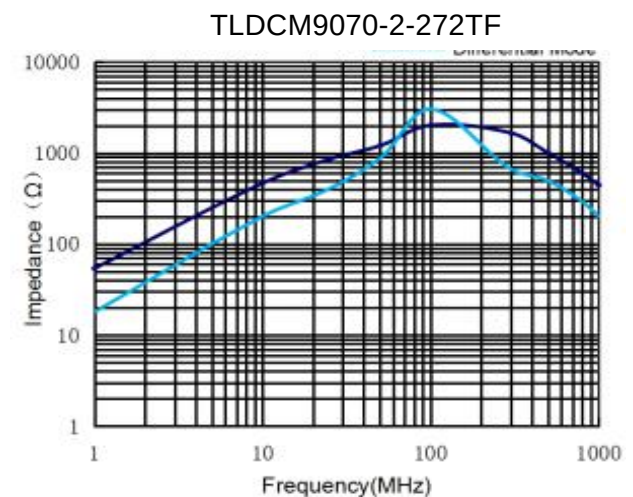
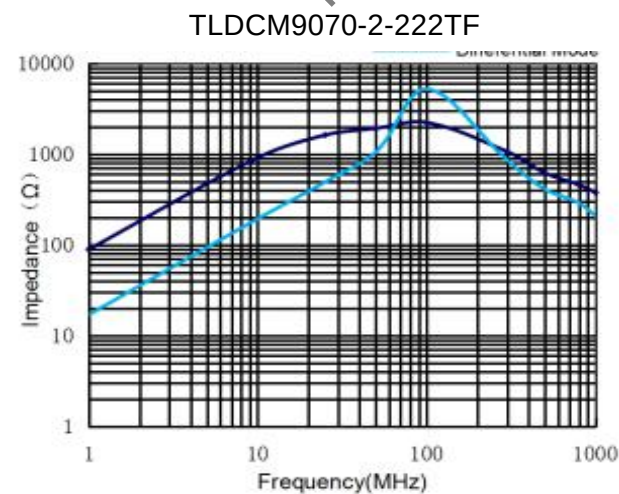
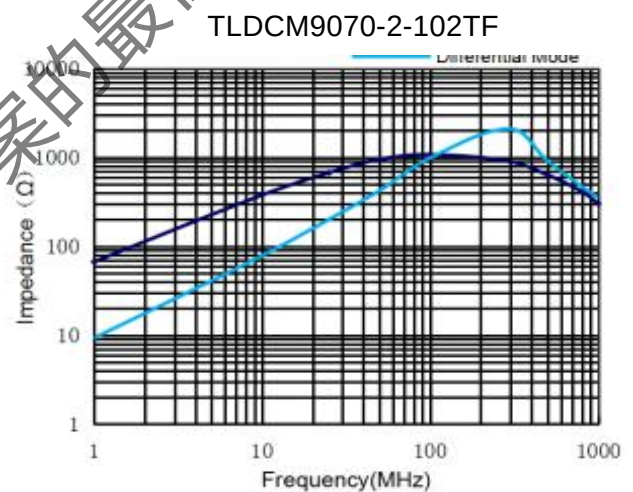
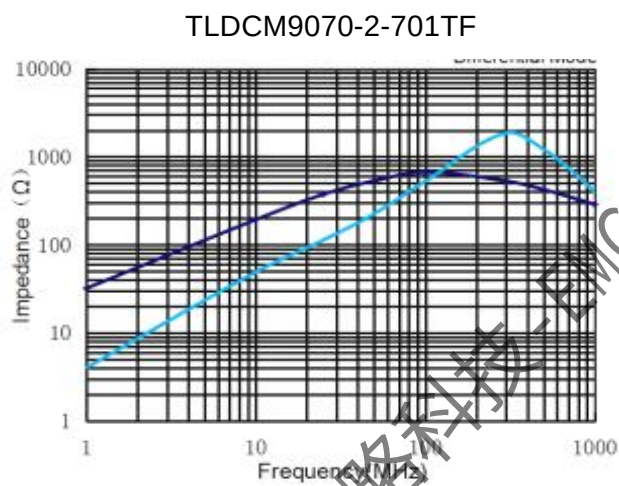
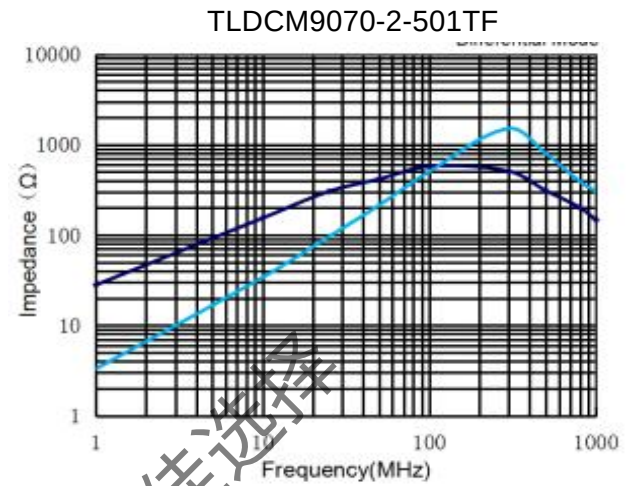
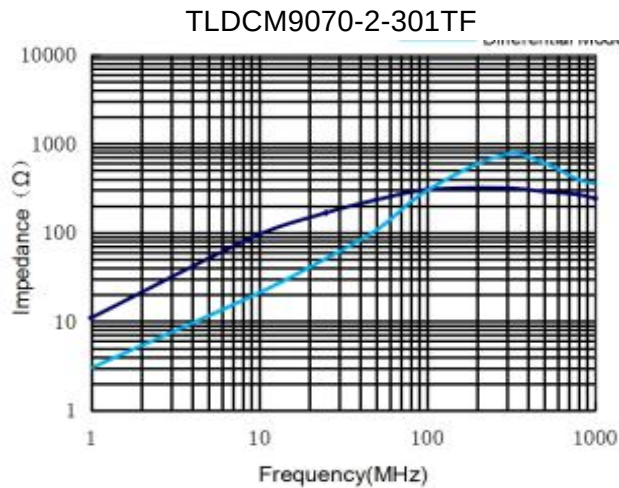
- ① Type:TLDCM
- ② External Dimensions (L×W) (mm) :9.0×7.0mm
- ③ Number of Lines : 2
- ④ Impedance : 701=700Ω
- ⑤ Packing :Tape & Reel
- ⑥ Hazardous Substance Free Products : F

Electrical Characteristics

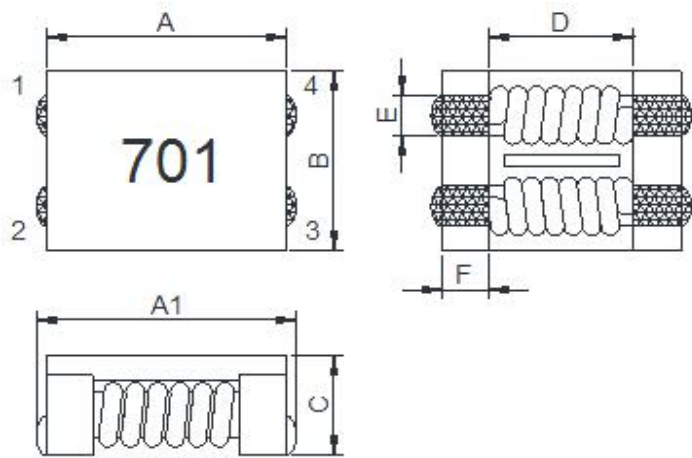
Part Number	Impedance (Ω) @100MHz	DC Resistance (m Ω) Max	RatedCurrent (A)Max	Rated Voltage (V)Max	Insulation Resistance
	TYP				
TLDCM9070-2-301TF	300	6	6.0	80	10M Ω
TLDCM9070-2-501TF	600	8	5.5	80	10M Ω
TLDCM9070-2-701TF	700	10	5.0	80	10M Ω
TLDCM9070-2-102TF	1000	13	4.0	80	10M Ω
TLDCM9070-2-222TF	2200	50	3.0	80	10M Ω
TLDCM9070-2-272TF	2700	80	2.0	80	10M Ω

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

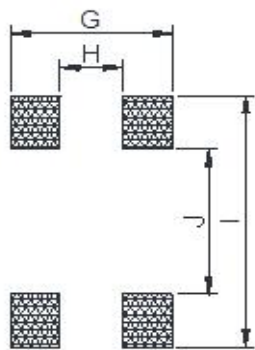
Typical Electrical Characteristics impedance vs. Frequency Characteristics



Dimensions in mm

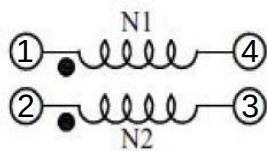


Land Pattern (mm)

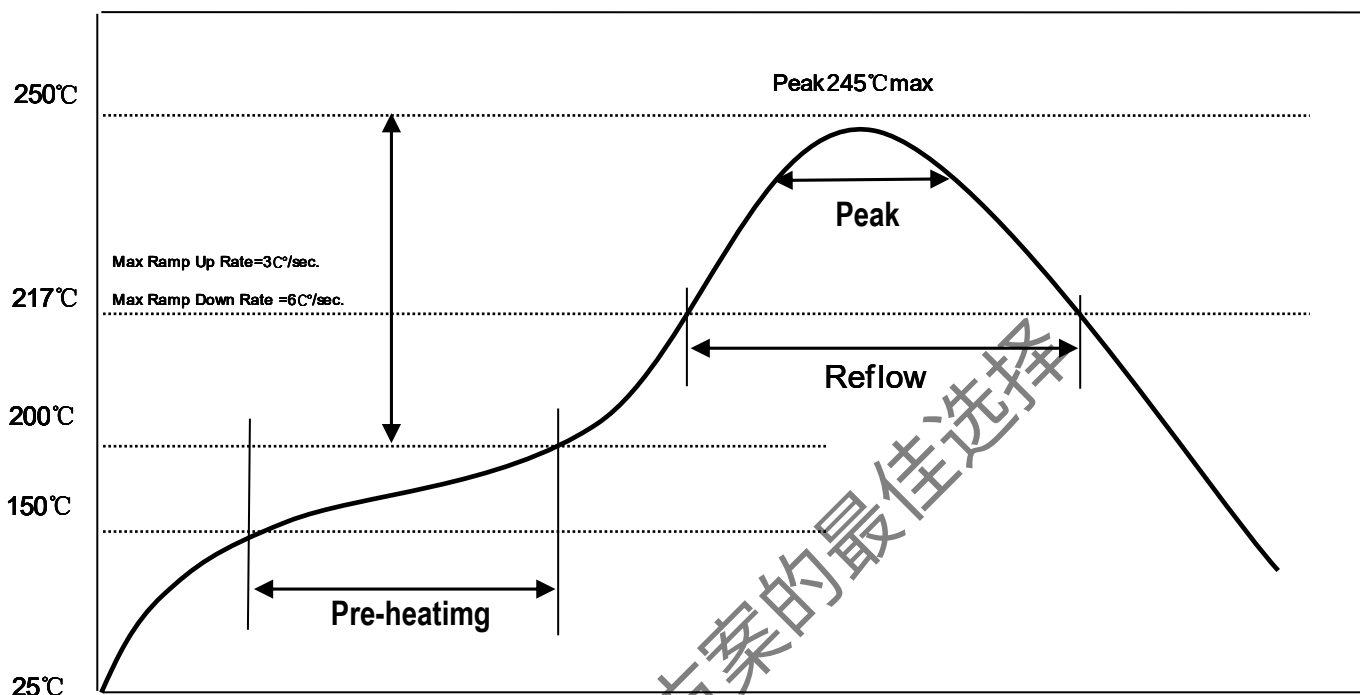


TYPE	TLDCM9070
A	9.0±0.5
A1	9.5±0.5
B	7.0±0.5
C	4.8Max
D	5.6Typ
E	1.5Typ
F	1.7Typ
G	5.5Typ
H	1.5Typ
I	10.5Typ
J	5.0Typ

Schematics (Bottom)



Recommended Soldering Technologies



Item.	Ramp - up	Preheating	Reflow	Peak Temp	Cooling
Temp.scope	R.T.~150°C	150°C~200°C	217°C	245±5°C	Peak Temp.~150°C
Time spec	—	60~180 sec	60~150sec	20~40sec	—
Time result	—	70~95 sec	70~95sec	20~35sec	—

Contact Information

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