

TLDCM9070 Series

DC COMMON MODE FILTER



Generls

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.
- 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.

Temperature Ranges

Operating	-40 to +125°C
Storge(after amount)	-40 to +125°C

Part Number System

TLDCM 9070 -2 -102 T F -TA
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type : TLDCM
- ② External Dimensions (L×W)(mm) : 9.0mm×7.0mm
- ③ Number of Lines : 2
- ④ Impedance : 102=1000Ω
- ⑤ Packing : Tape & Reel
- ⑥ Hazardous Substance Free Products : F
- ⑦ Design Code : TA

Electrical Characteristics

Part Number	Impedance (Ω) @100MHz		DC Resistance (m Ω) Max	Rated Current (A)Max	Rated Voltage (V)Max	Insulation Resistance
	MIN	TYP				
TLDCM9070-2-301TF-TA	225	300	6	6.0	80	10M Ω
TLDCM9070-2-501TF-TA	450	600	8	5.5	80	10M Ω
TLDCM9070-2-701TF-TA	500	700	10	5.0	80	10M Ω
TLDCM9070-2-102TF-TA	750	1000	13	4.0	80	10M Ω
TLDCM9070-2-222TF-TA	1700	2200	50	3.0	80	10M Ω
TLDCM9070-2-272TF-TA	2000	2700	80	2.0	80	10M Ω

(1) Rated Current: Temp. rise 40°C Typ

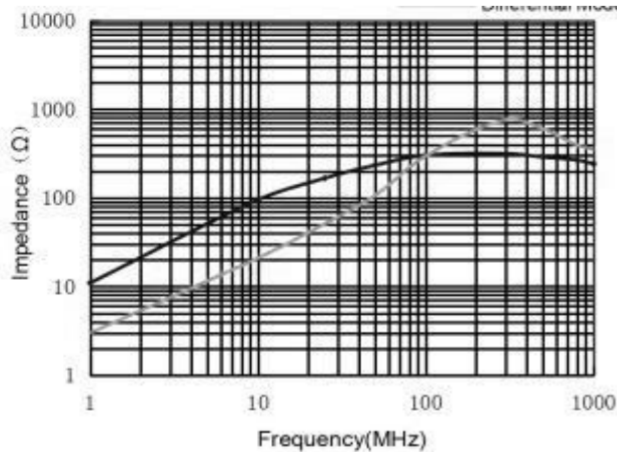
(2) Operating Temperature:-40 °C up to +125 °C

(3) Storage Temperature:-40°C up to +125°C, 75% RH max

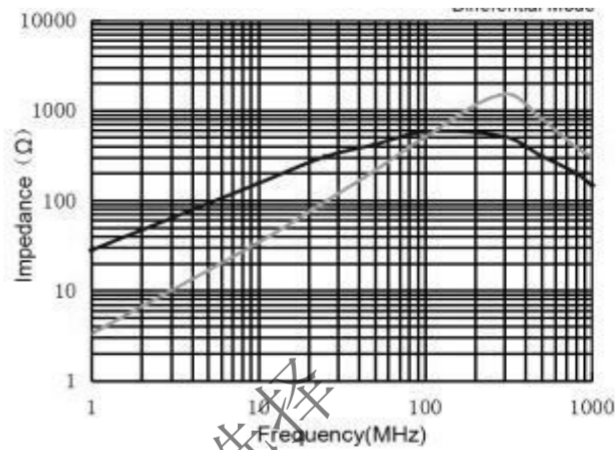
韬略科技-EMC方案的最佳选择

Typical Electrical Characteristics impedance vs. Frequency Characteristics

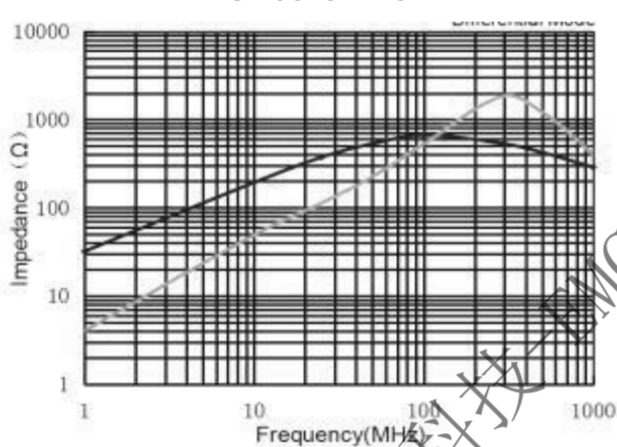
TLDCM9070-2-301TF-TA



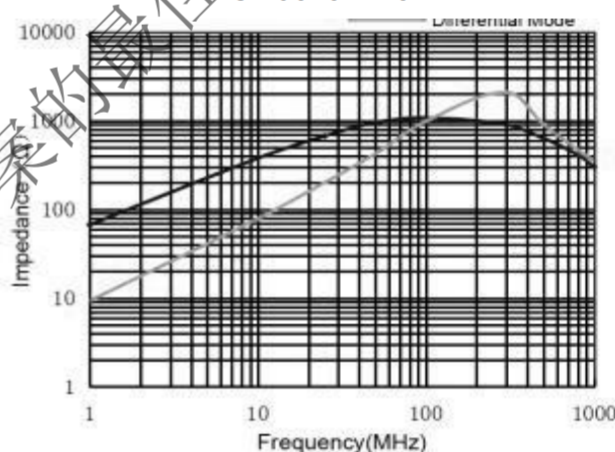
TLDCM9070-2-501TF-TA



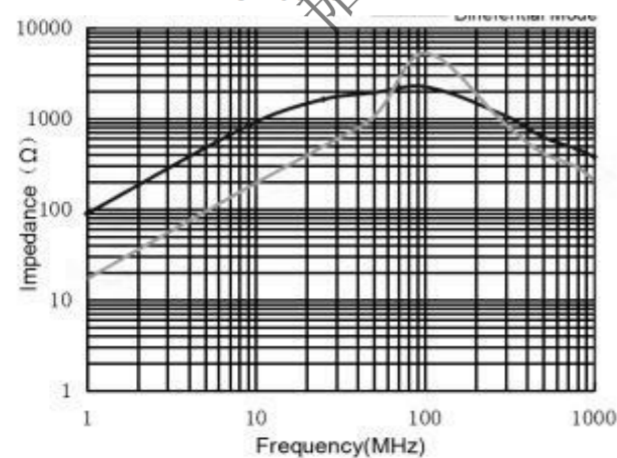
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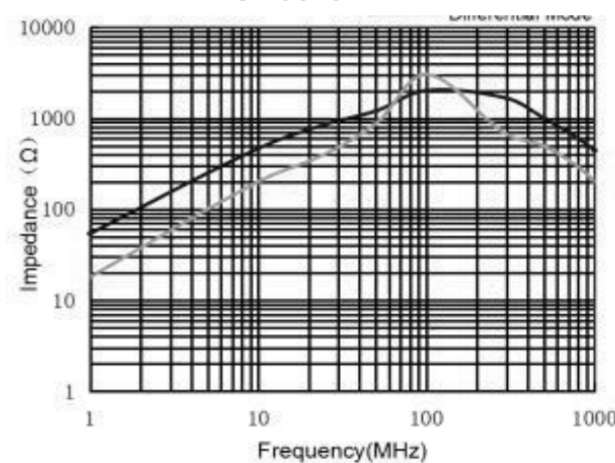
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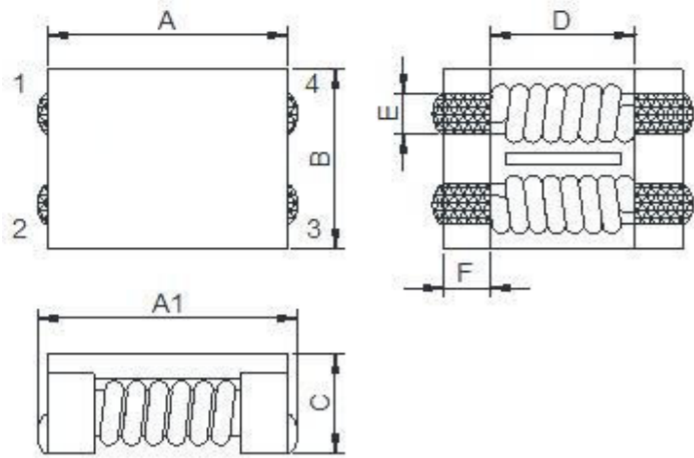
TLDCM9070-2-222TF-TA



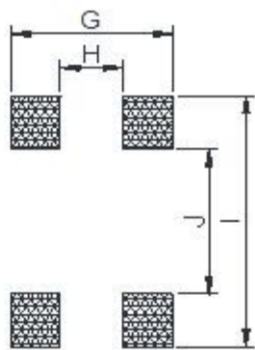
TLDCM9070-2-272TF-TA



Dimensions in mm

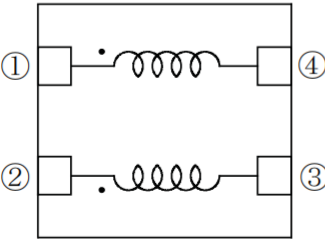


Land Pattern (mm)

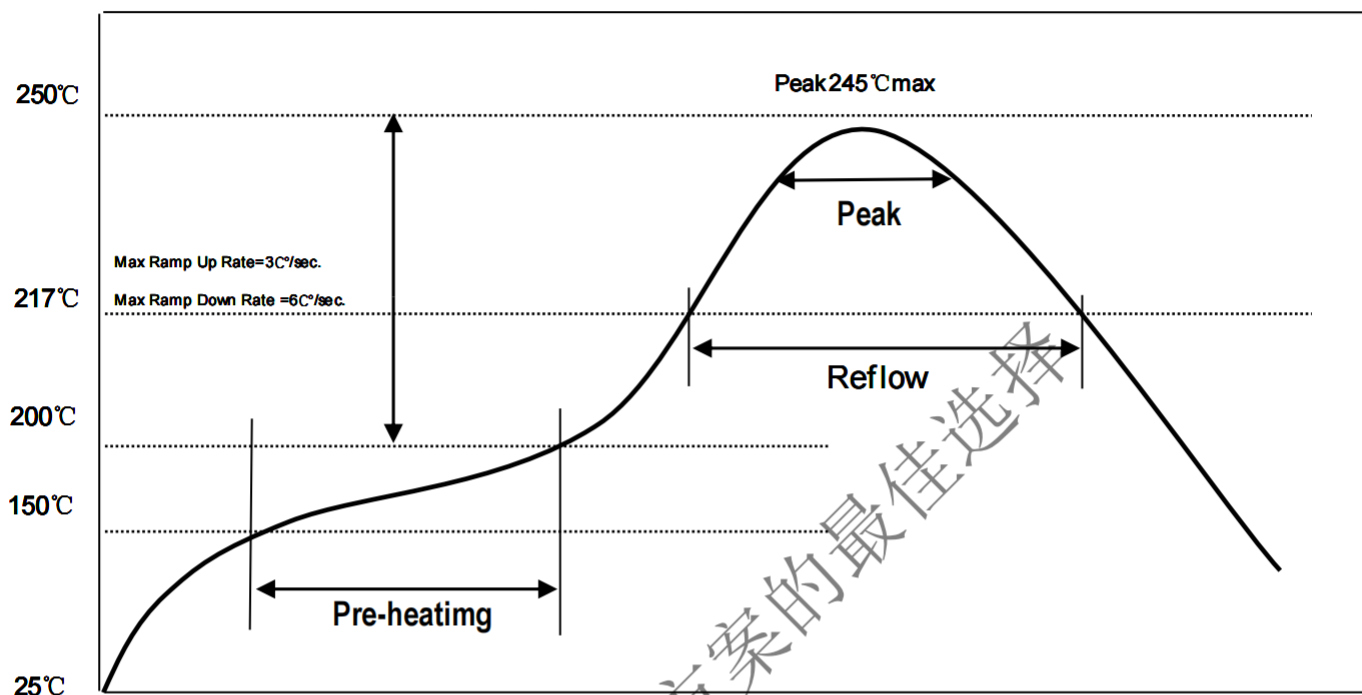


TYPE	TLDCM9070
A	9.0±0.5
A1	9.5±0.5
B	7.0±0.5
C	4.8Max
D	5.6Typ
E	1.5Typ
F	1.7Typ
G	5.5Typ
H	1.5Typ
I	10.5Typ
J	5.0Typ

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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