

# TLDCM5050 Series

## DC COMMON MODE FILTER

TOP-EMC

### GENERALS

This specification covers the engineering requirements for the TLDCM5050 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	-50 to +155°C
Storage(After mount)	-50 to +155°C

### Part Number System

TLDCM   5050   -2   -102   Y   F  
①   ②   ③   ④   ⑤   ⑥

- ① Type:TLDCM
- ② External Dimensions (L×W) (mm) :5.0×5.0mm
- ③ Number of Lines: 2
- ④ Impedance :102=1000Ω
- ⑤ Tolerance:Y ±30%,
- ⑥ Hazardous Substance Free Products :F

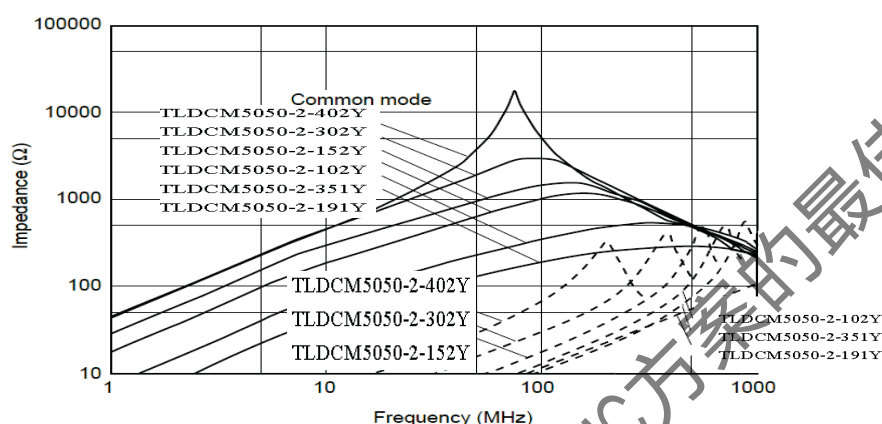
## ELECTRICAL CHARACTERISTICS

Sunnycoil Part Name	L(Ref.) L1, L2 100kHz (μH)	Impedance*** Z (Ω) @ 100 MHz	DCR (mΩ) max. (each winding)	Rated Current (mA)
TLDCM5050-2-191YF	0.60	190 ± 35 %	20	5000
TLDCM5050-2-351YF	1.1	350 ± 35 %	40	2000
TLDCM5050-2-102YF	2.7	1000 ± 35 %	60	1500
TLDCM5050-2-152YF	3.6	1500 ± 35 %	100	1000
TLDCM5050-2-302YF	6.0	3000 ± 50 %	200	500
TLDCM5050-2-402YF	2.8	4000 ± 50 %	300	200

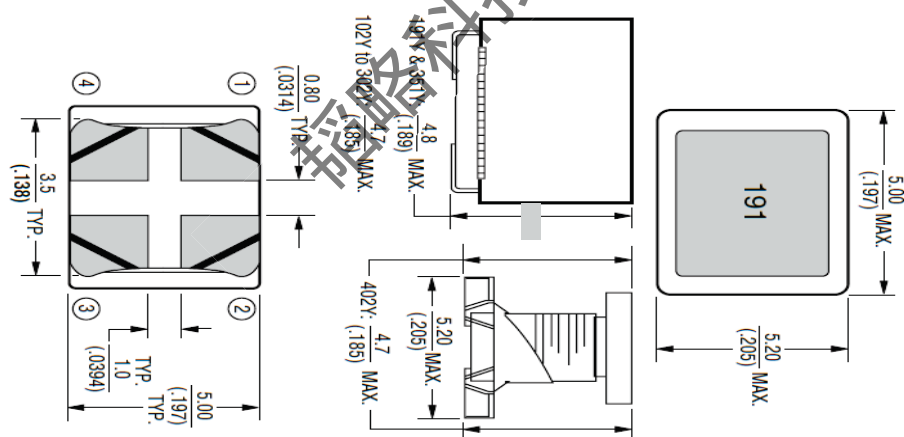
※1.Saturation Current: The DC current at which the inductance decreases to 75% of it's nominal value

※2 Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ ( $T_a=20^{\circ}\text{C}$ )

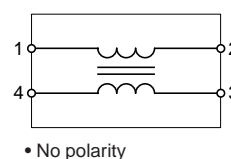
- Storage temperature range:  $-50^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$
- Operating temperature range:  $-50^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$



### Dimensions (mm)



### Schematics (Bottom)



## CONTACT INFORMATION

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