

TF0605A2X900MT

COMMON MODE FILTER



■ Generals

- This specification covers the engineering requirements for the TF0605A2X900MT (Common Mode Filter)

■ Features

- Small size and low-profile
(0.64 x 0.57 x 0.35mm)
- Effective for suppressing common mode noise and almost no effect for high speed differential data line
- Ceramic multilayer type SMD component
- Non-polarized product
- It is a product conforming to RoHS directive.

■ Recommended Applications

- Mobile phone, DSC, notebook PCs and Digital displays
- Noise suppression of high-speed data lines such as USB, LVDS and HDMI lines

■ Explanation of Part Numbers

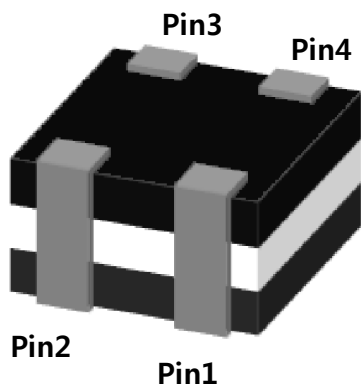
$\frac{T}{①}$ $\frac{F}{②}$ $\frac{0605A}{③}$ $\frac{2X}{④}$ $\frac{900}{⑤}$ $\frac{M}{⑥}$ $\frac{T}{⑦}$

- ① Company Name: TOP-EMC
- ② Product Function: Filter
- ③ Dimensions, 0.65mm (L)×0.65mm (W)
- ④ Number of lines, 2X = 2 lines
- ⑤ Common Mode Impedance (at 100MHz), 900= 90Ω
- ⑥ Tolerance of common mode impedance, M=±25%
- ⑦ Packing Tape & Reel

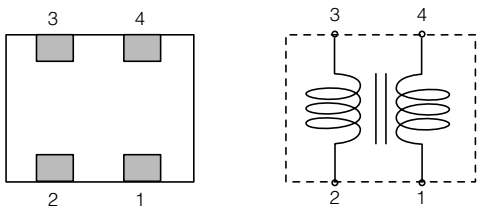
■ OPERATING TEMPERATURE

DESCRIPTION	REQUIREMENTS
Operating Temperature	-40°C ~ + 85°C

Construction



Cfircuitit Confi gurattion(No Polarity)



*The pin numbers shown here are for reference purposes only. Confirm the actual pin number arrangement with the exchanged specification documents.

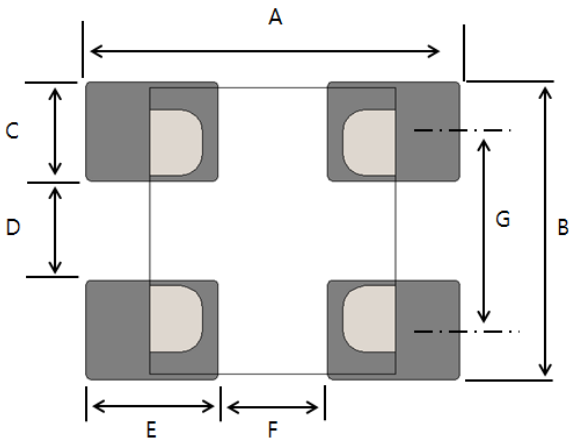
ITEM	DESCRIPTION	SOURCE	EQUIPMENT
Rdc	Pin 1 to 4, 2 to 3	10mA DC Source	Source Meter
CM Impedance	Pin 1-2(Short) to Pin 3-4(Short)		LCR Meter (3GHz)

Appearance and Dimension



Unit : mm

Item	A	B	C	D	E	F
Size(mm)	0.64±0.05	0.57±0.05	0.15±0.05	0.15±0.05	0.4±0.1	0.35±0.03



Unit : mm

Item	Size
A	0.85±0.05
B	0.68±0.08
C	0.23±0.03
D	0.23±0.03
E	0.30
F	0.25±0.05
G	0.45±0.05

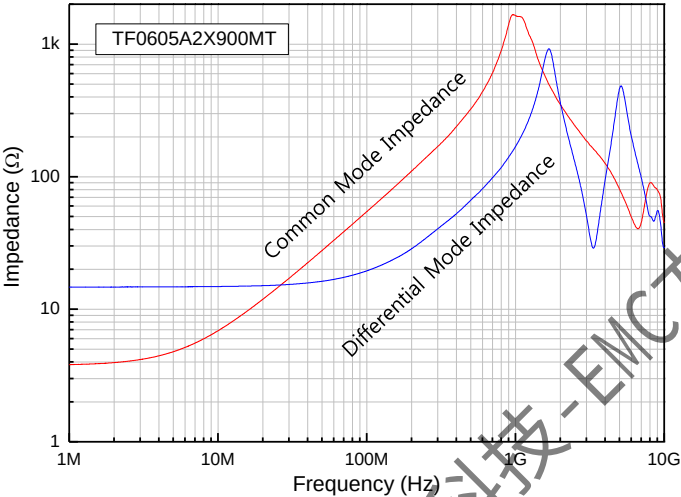
[Foot print / Stencil Mask]

Electrical Characteristics

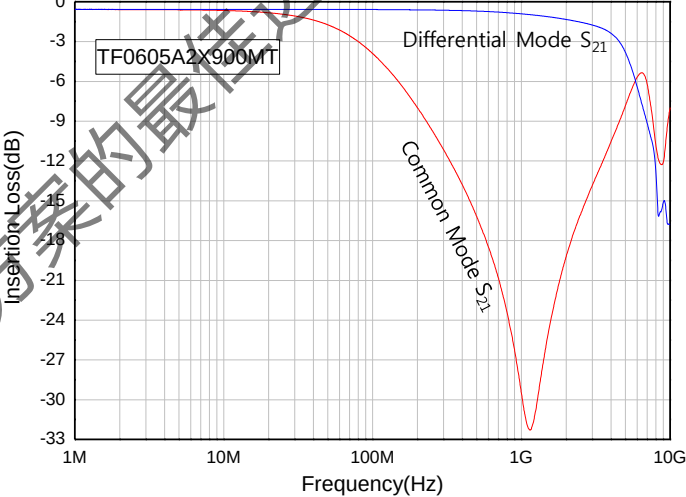
Part Number	Common Mode Impedance @160MHz	Max. DC Resistance 25°C±2°C	Max. Rated Current 25°C±2°C	Min. Insulation Resistance @5V
Units	Ω	Ω	mA	MΩ
Symbol	Z	DCR	I _r	IR
TF0605A2X900MT	90(± 25%)	6.0(± 30%)	Max 80	Min 10

Impedance Characteristics (Typical)

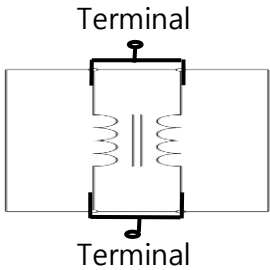
Impedance Curves



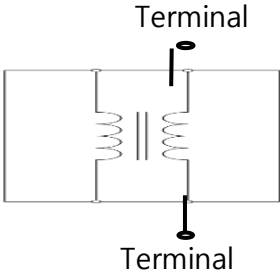
Transmission characteristics (S-parameter)



Measurement Circuit

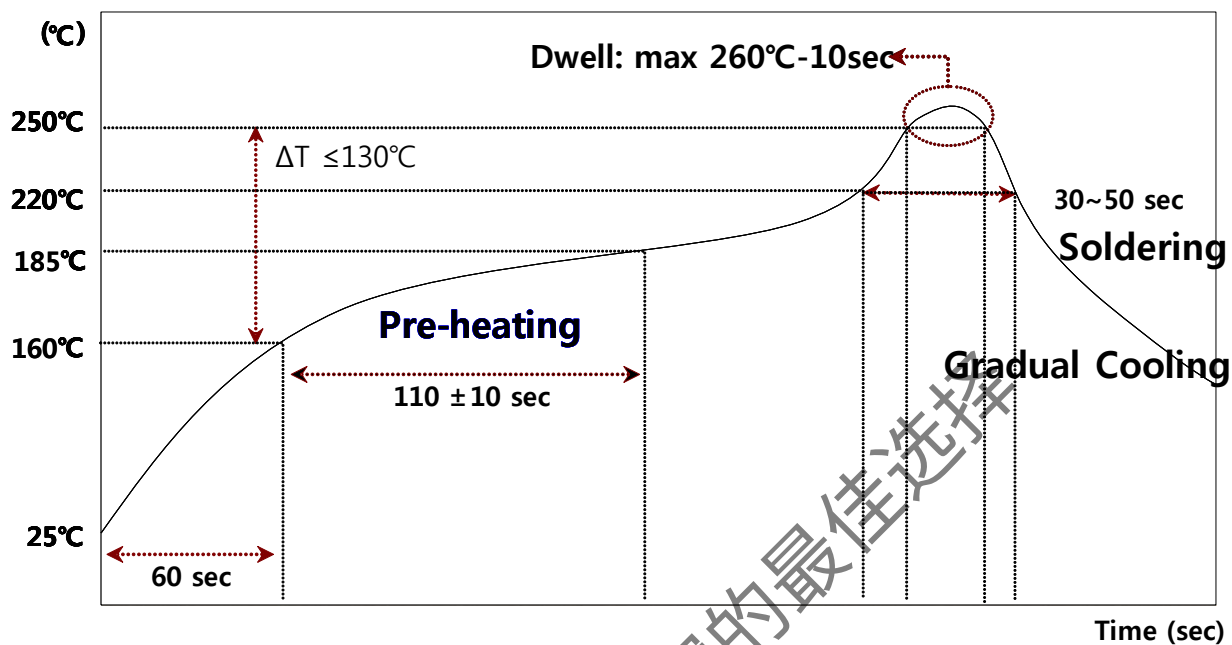


(A) Common Mode



(B) Differential Mode

● Recommended Soldering Conditions



■ Contact Information

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