

TF0806A2X Series

COMMON MODE FILTER

TOP-EMC

Generals

- This specification covers the engineering requirements for the TF0806A2X series (Common Mode Filter)

Features

- Small size and low-profile(L 0.87mm × W 0.67mm × H 0.47mm)
- Rigidly layered and sintered structure with high resistance to reflow heat and mounting reliability
- Filtering the noise of high-speed differential signaling lines and minimizing deformations of transmitted signal waveforms
- High-Q filters with high impedance at around 1 GHz
- Low DC resistance and insertion loss
- Lead, halogen, and antimony free
- Compliant with AEC-Q200
- RoHS compliant



Applications

- Suppress the emission noise for vehicle multimedia interfaces (MOST, HDMI, IDB-1394, etc.).

Explanation of Part Numbers

T F 0806A 2X 900 M T
① ② ③ ④ ⑤ ⑥ ⑦

- ① Company Name : TOP-EMC
- ② Product Function : Common Mode Filter
- ③ Dimensions : 0.87mm(L) × 0.67mm(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

Electrical Characteristics

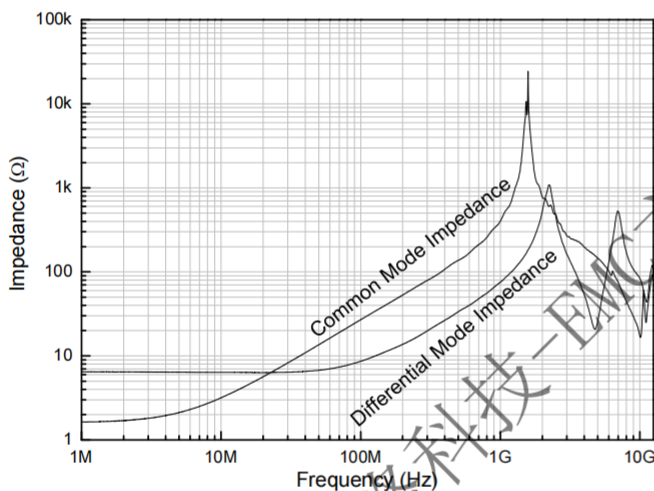
Part Number	Common Mode Impedance(Ω) @100MHz	Rated Voltage (V DC)	Rated Current Max.(mA)	DC Resistance Max.(Ω)	Min. Insulation Resistance
TF0806A2X250MT	25 Ω $\pm$ 25%	5	100	3.5	10M Ω
TF0806A2X900MT	90 Ω $\pm$ 25%	5	100	6.0	10M Ω

Note
Operating Temperature : -40 $^{\circ}$ C ~+125 $^{\circ}$ C

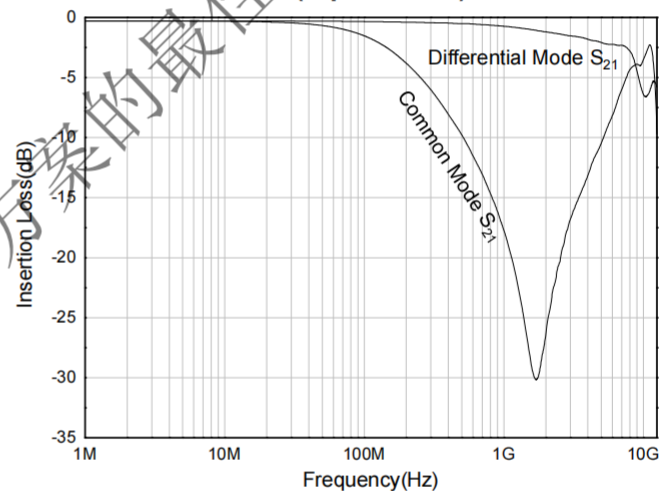
Typical Impedance Characteristics

TF0806A2X250MT

Impedance Curves

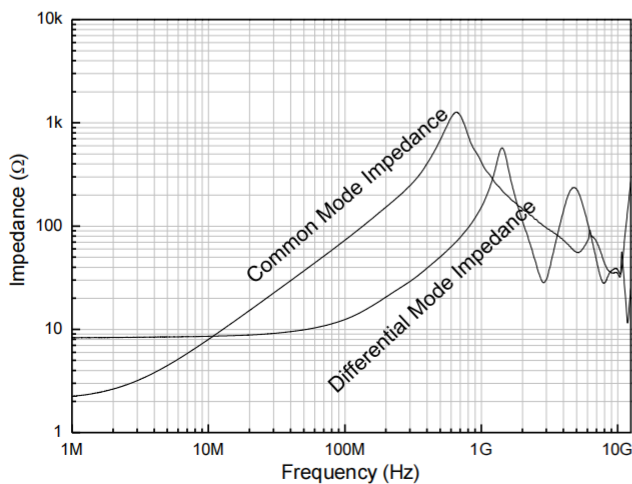


Transmission characteristics (S-parameter)

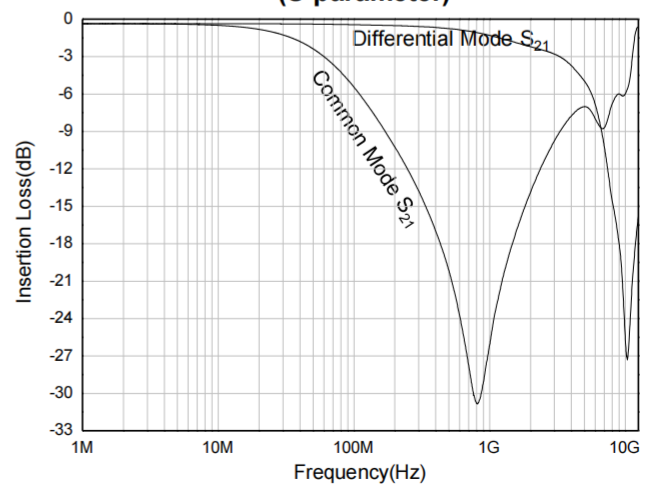


TF0806A2X900MT

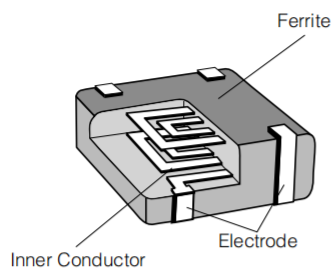
Impedance Curves



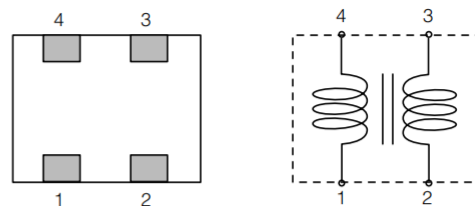
Transmission characteristics (S-parameter)



Construction

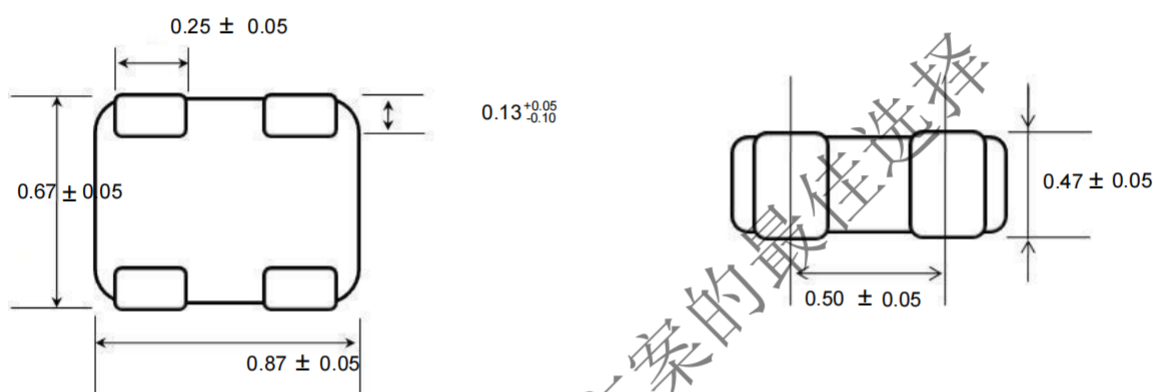


Circuit Configuration (No Polarity)



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

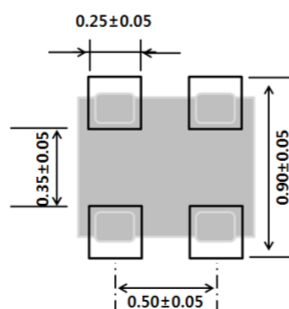
Appearance and Dimension (Unit: mm)



Measurement Circuit



Recommended Foot Print (Unit: mm)



Contact Information

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