

## Common mode Noise Filters



### ◆ Features

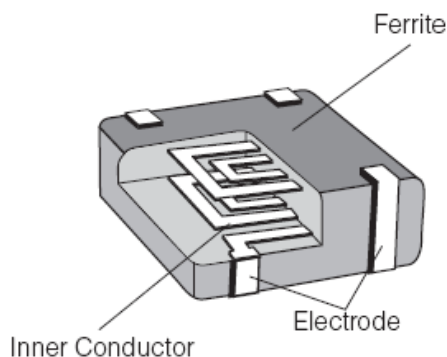
- 1、 Small and thin (L 0.85 mm×W 0.65 mm×H 0.45 mm)
- 2、 Noise suppression of high-speed differential transmission lines with little influence of waveform rounding on signal transmission
- 3、 Low DC resistance and low insertion loss
- 5、 Strong multilayer/sintered structure, excellent reflow resistance and high mounting reliability
- 6、 Lead, halogen and antimony-free
- 7、 RoHS compliant



### ◆ Application

- 1、 Smartphones, Tablet PCs and DSC
- 2、 Noise suppression of high-speed differential data lines such as USB, LVDS and MHL

### ◆ Construction

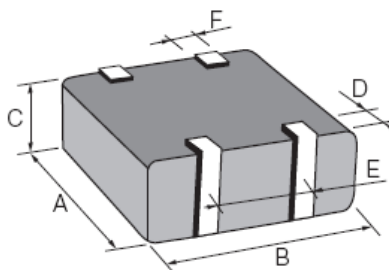


### ◆ PRODUCT IDENTIFICATION

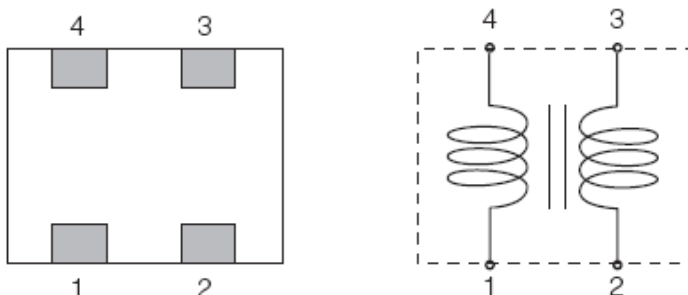
**SMM 0806 E 900 N S T**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Series Type
- (2) Chip Size (mm) :Length X Width
- (3) Material type : With magnetic shield(B/D/H)
- (4) Nominal Impedance:120=12Ω;  
900=90Ω
- (5) Inductance Tolerance: M=±20%, N=±25%  
Y=±30%
- (6) Company Code
- (7) Packaging: P – Embossed paper tape, 7" reel  
E – Embossed plastic tape, 7" reel  
T – Tape & reel

### ◆ Dimensions in mm



Part No. (inch size)	Dimensions(mm)						Mass (Weight:mg/pc.)
	A	B	C	D	E	F	
<b>SMM0806E</b>	0.65±0.05	0.85±0.05	0.45±0.05	0.10 min.	0.50±0.10	0.27±0.10	1.4



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

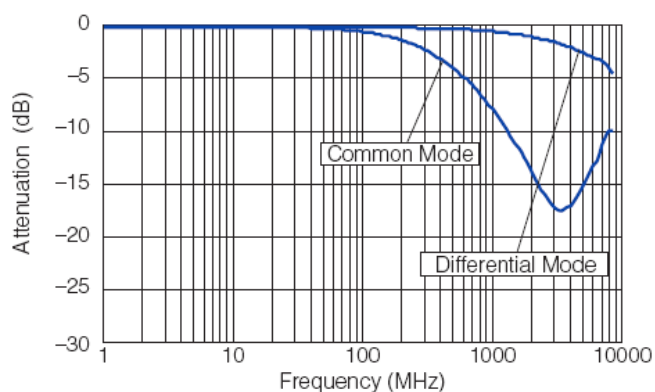
## ◆ Specifications

Part Number	Impedance ( $\Omega$ ) at 100 MHz		Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance ( $\Omega$ )max.
	Common Mode	Differential Mode			
SMM0806E120YST	12 $\Omega$ ±30%	10 $\Omega$ max.	5	130	2.0
SMM0806E350YST	35 $\Omega$ ±30%	15 $\Omega$ max	.5	100	2.0
SMM0806E450NST	45 $\Omega$ ±25%	15 $\Omega$ max.	5	100	2.7
SMM0806E650MST	65 $\Omega$ ±20%	20 $\Omega$ max	.5	130	2.5
SMM0806E900MST	90 $\Omega$ ±20%	20 $\Omega$ max.	5	130	2.5
SMM0806E121MST	120 $\Omega$ ±20%	20 $\Omega$ max.	5	100	3.8

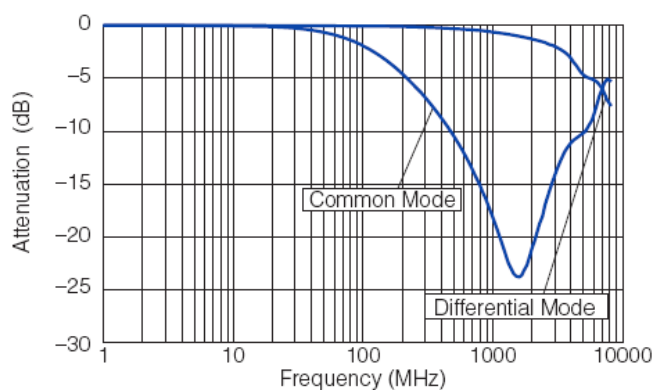
Category Temperature Range -40 °C to +85 °C

## ◆ Impedance Characteristics (Typical)

**SMM0806E120YST**

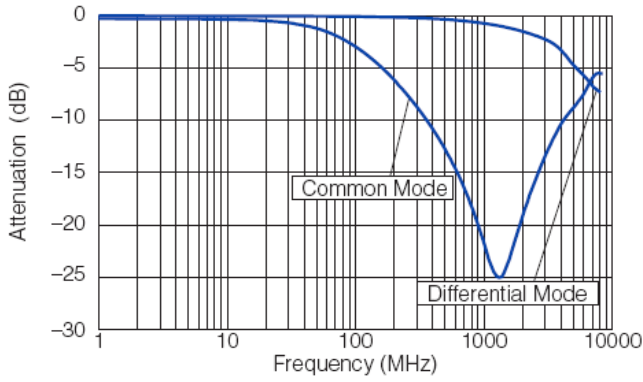


**SMM0806E350YST**

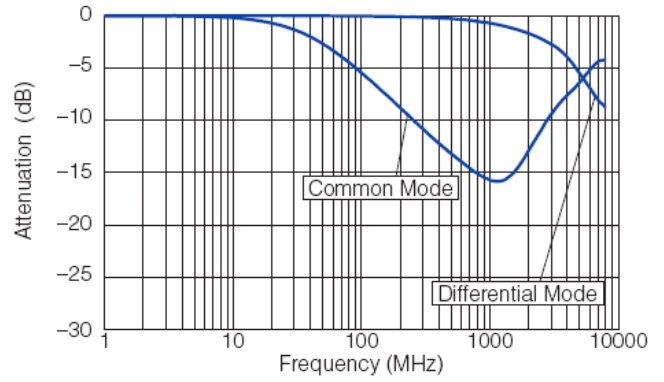


◆ Impedance Characteristics (Typical)

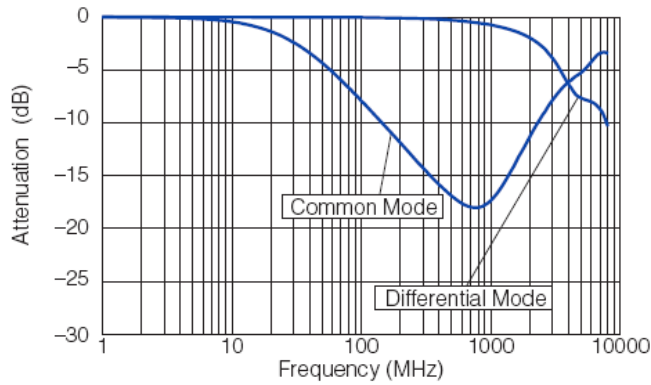
**SMM0806E450NST**



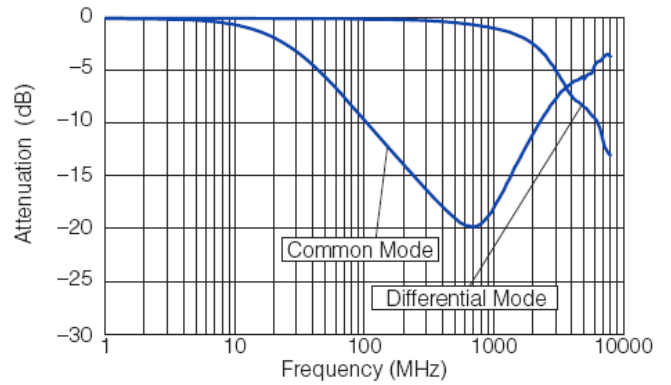
**SMM0806E650MST**



**SMM0806E900MST**



**SMM0806E121MST**



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