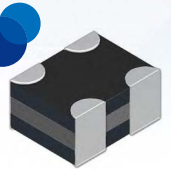


# Multilayer Chip Common Mode Filter-SDMM Series

Operating Temp. : -40°C ~+85°C



## FEATURES

- Effective for suppressing common mode noise at high frequency
- Excellent solderability characteristics
- Small size & low profile
- Multilayer type SMD component based on LTCC technology

## APPLICATIONS

- Common mode noise suppression of high speed differential signal lines, such as MIPI, MHL, HDMI in mobile phone, tablet PC, TV etc.

## PRODUCT IDENTIFICATION

### SDMM

①

Type	
SDMM	Multilayer Chip Common Mode Filter

### 0806

②

### U

③

External Dimensions (L×W) (mm)	
0605	0.65×0.50
0806	0.85×0.65
0906	0.90×0.68

### -2

④

Common Mode Impedance (Ω)	
Example	Nominal Value
350	35
900	90

### 900

⑤

### T

⑥

Feature Type	
H	for High-Speed Differential Signal Lines
U	for Ultra High Speed Differential Signal Lines

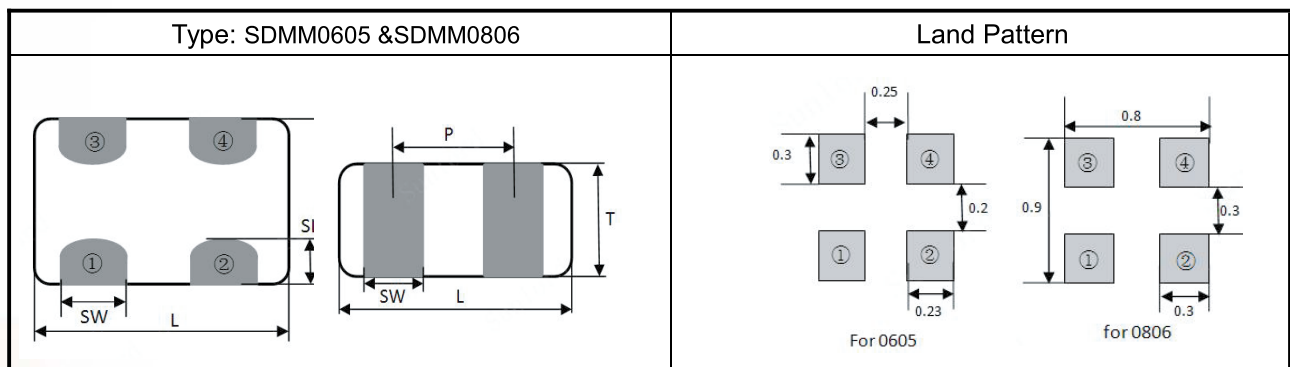
④

Number of Lines	
2	2 Lines
3	3 Lines

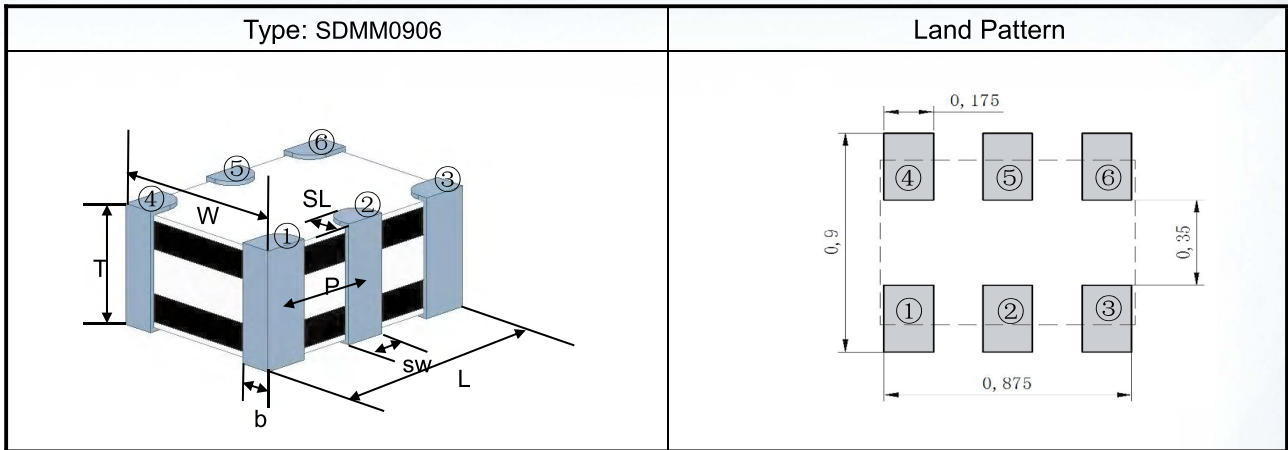
⑥

Packing	
T	Tape & Reel

## SHAPE DIMENSIONS AND LAND-PATTERN



## SHAPE DIMENSIONS AND LAND-PATTERN



Unit: mm

Type	L	W	T	SL	SW	P	b
SDMM0605	0.65±0.05	0.50±0.05	0.30±0.05	0.12±0.10	0.15±0.10	0.40±0.10	/
SDMM0806	0.85±0.05	0.65±0.05	0.40±0.05	0.20±0.05/-0.10	0.27±0.05	0.50±0.05	/
SDMM0906	0.90±0.05	0.68±0.05	0.40±0.05	0.12±0.10	0.15±0.10	0.35±0.10	SL

## EQUIVALENT CIRCUIT



## SPECIFICATION

### SDMM0605H Series

Part Number	Common mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Withstand Voltage	Min. Insulation Resistance
Units	Ω	Ω	mA	Volts	Volts	MΩ
Symbol	Z	DCR	I <sub>r</sub>	VDC	V <sub>p</sub>	IR
SDMM0605H-2-900T	90±20%	5.0	100	5	12.5	100

### SDMM0906H Series

Part Number	Common mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Withstand Voltage	Min. Insulation Resistance
Units	Ω	Ω	mA	Volts	MΩ
Symbol	Z	DCR	I <sub>r</sub>	V <sub>p</sub>	IR
SDMM0906H-3-300T	30±20%	4.0	50	12.5	100

## SPECIFICATION

### SDMM0605U Series

Part Number	Common mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Withstand Voltage	Min. Insulation Resistance
Units	$\Omega$	$\Omega$	mA	Volts	Volts	M $\Omega$
Symbol	Z	DCR	I <sub>r</sub>	VDC	V <sub>p</sub>	IR
SDMM0605U-2-120T	12 $\pm$ 5	2.5	50	5	12.5	100
SDMM0605U-2-250T	25 $\pm$ 20%	3.5	50	5	12.5	100

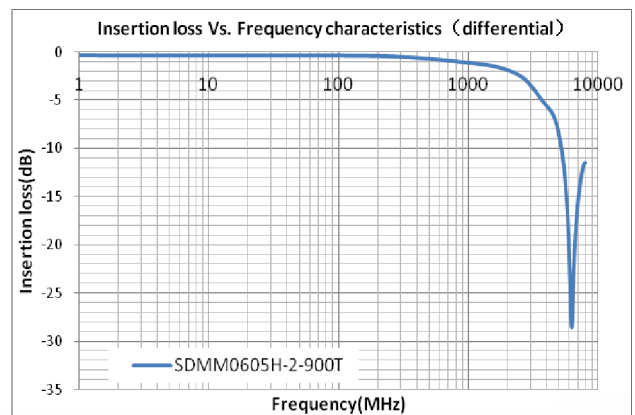
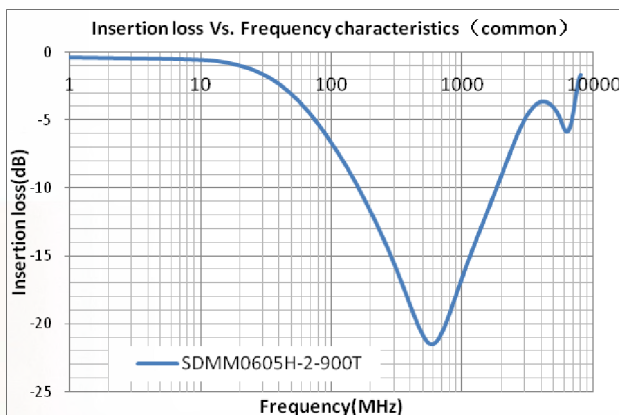
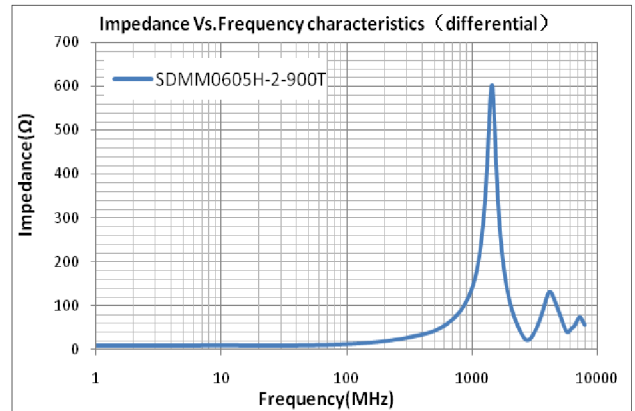
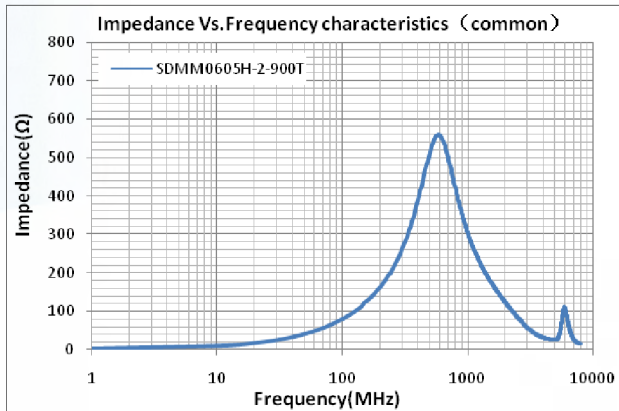
### SDMM0806U Series

Part Number	Common Mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Min. Insulation Resistance	Cutoff Frequency (typ.)
Units	$\Omega$	$\Omega$	mA	M $\Omega$	GHz
Symbol	Z	DCR	I <sub>r</sub>	IR	f <sub>0</sub>
SDMM0806U-2-120T	12 $\pm$ 5	2.5	130	100	>8
SDMM0806U-2-350T	35 $\pm$ 20%	3.5	100	100	>6
SDMM0806U-2-470T	47 $\pm$ 20%	4.0	100	100	6
SDMM0806U-2-900T	90 $\pm$ 20%	4.5	100	100	3.5

Note: Absolute maximum long term direct-current voltage between D+ and D-of differential lines: DC 1.5V

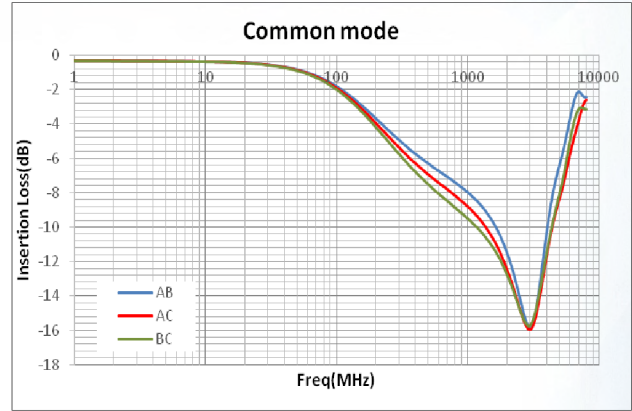
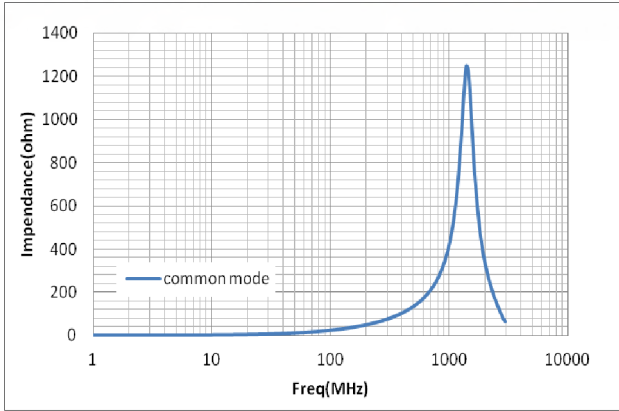
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### SDMM0605H Series

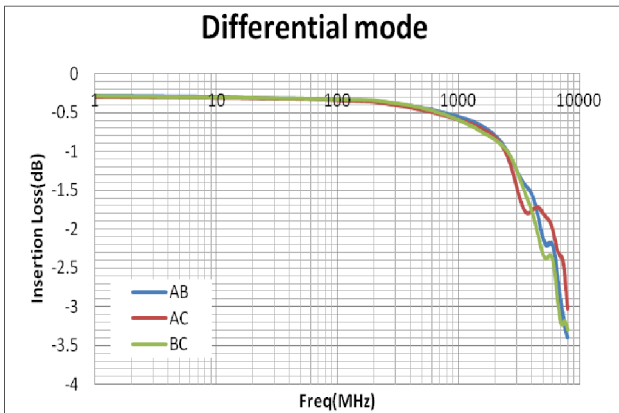


# TYPICAL ELECTRICAL CHARACTERISTICS

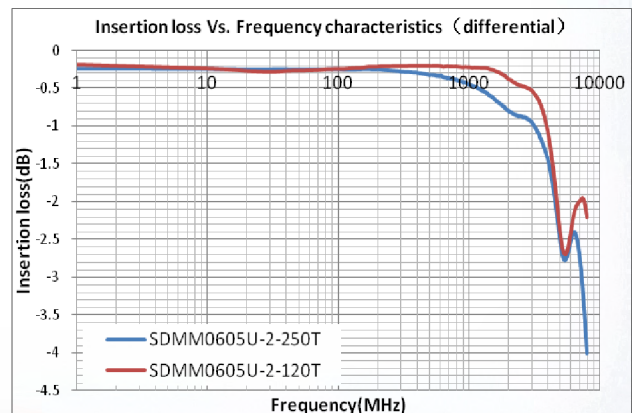
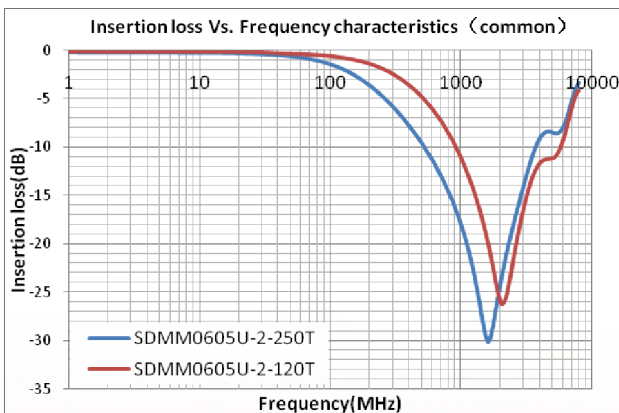
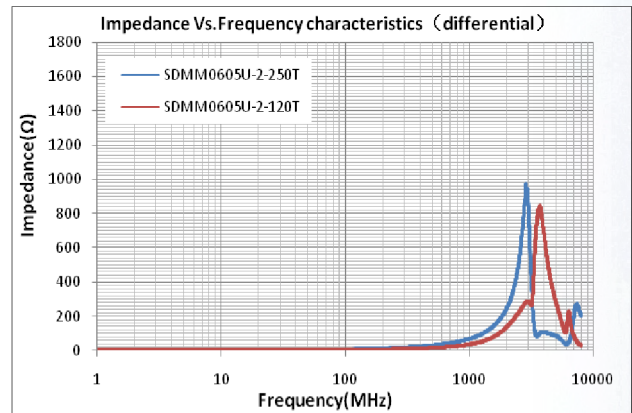
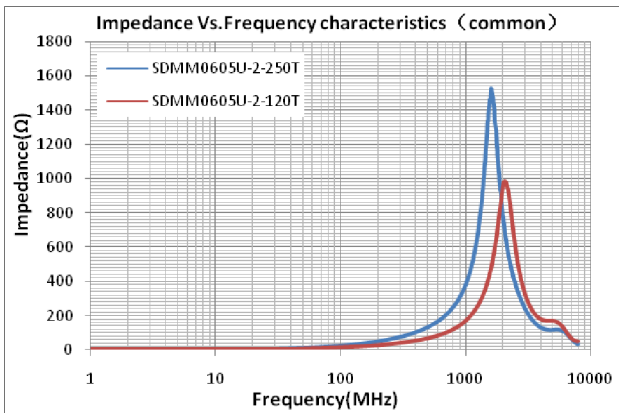
## SDMM0906H Series



## SDMM0906H Series

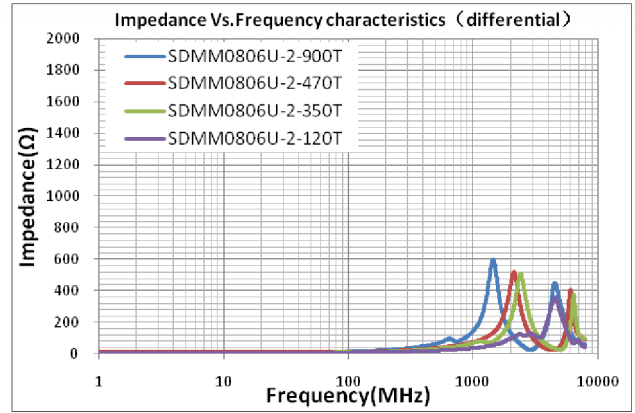
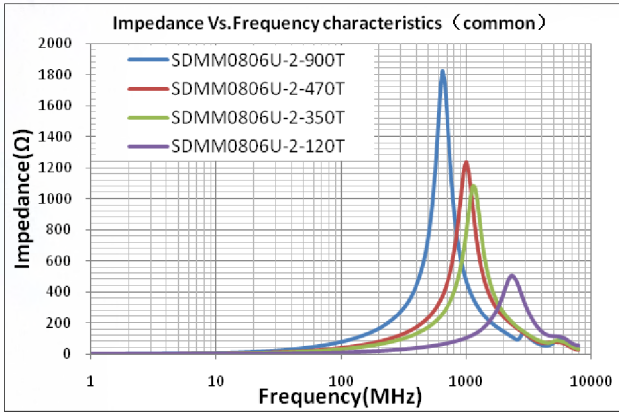


## SDMM0605U Series



# TYPICAL ELECTRICAL CHARACTERISTICS

## SDMM0806U Series



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