

# Multilayer Chip Common Mode Filter– ECMM 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

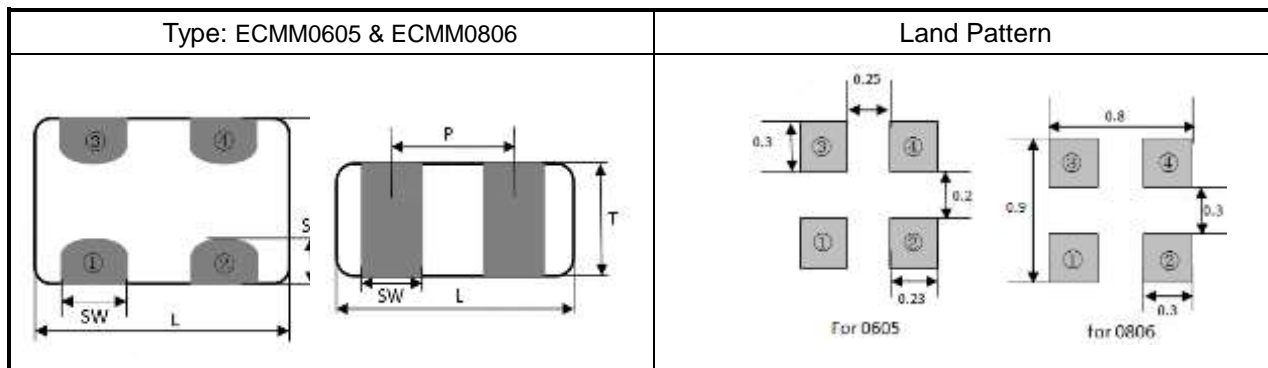
## APPLICATIONS

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

## PRODUCT IDENTIFICATION

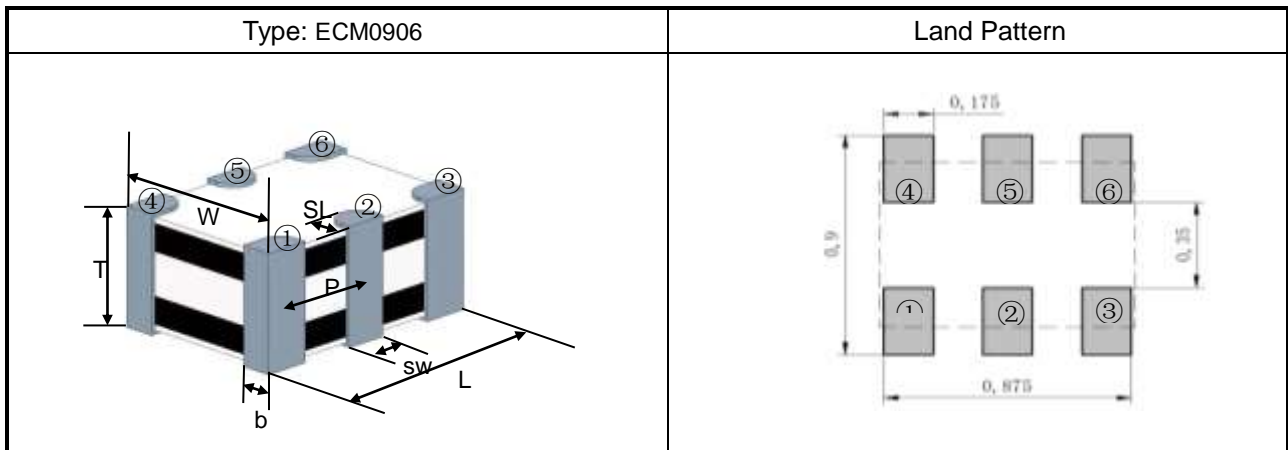
<u>ECMM</u>	<u>0806</u>	<u>U</u>	<u>-2</u>	<u>900</u>	<u>T</u>																		
①	②	③	④	⑤	⑥																		
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## SHAPE, DIMENSIONS AND LAND-PATTERN



Unit: mm

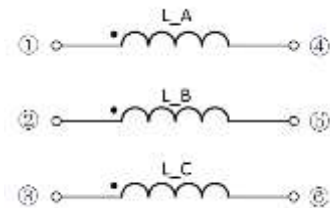
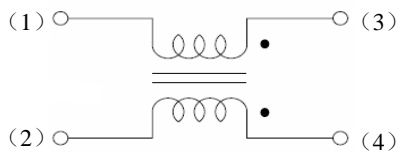
## SHAPE, DIMENSIONS AND LAND-PATTERN



Unit: mm

Type	L	W	T	SL	SW	P	b
ECMM0605	0.65±0.05	0.50±0.05	0.30±0.05	0.12±0.10	0.15±0.10	0.40±0.10	/
ECMM0806	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	/
ECMM0906	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



## SPECIFICATIONS

### ECMM0605H 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
ECMM0605H-2-900T	90±20%	5.0	100	5	12.5	100

### ECMM0906H 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
ECMM0906H-3-300T	30±20%	4.0	50	5	12.5	100

# SPECIFICATIONS

## ECM0605U Series

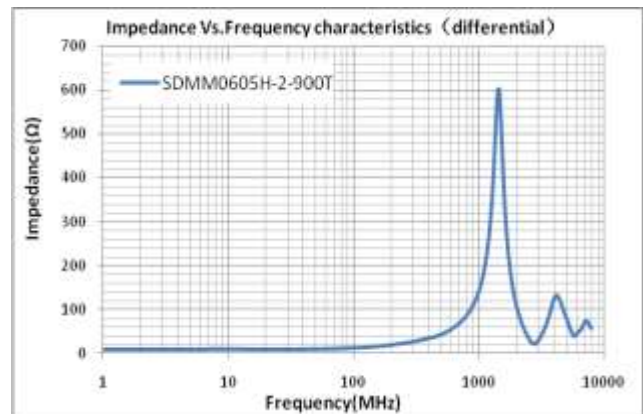
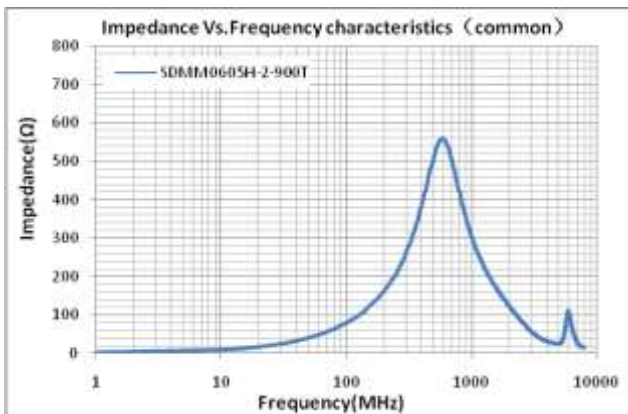
Part Number	Common mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Withstand Voltage	Min. Insulation Resistance
Units	$\Omega$	$\Omega$	mA	Volts	Volts	M $\Omega$
Symbol	Z	DCR	I <sub>r</sub>	V <sub>DC</sub>	V <sub>p</sub>	IR
ECMM0605U-2-120T	12±5	2.5	50	5	12.5	100
ECMM0605U-2-250T	25±20%	3.5	50	5	12.5	100

## ECMM0806U Series

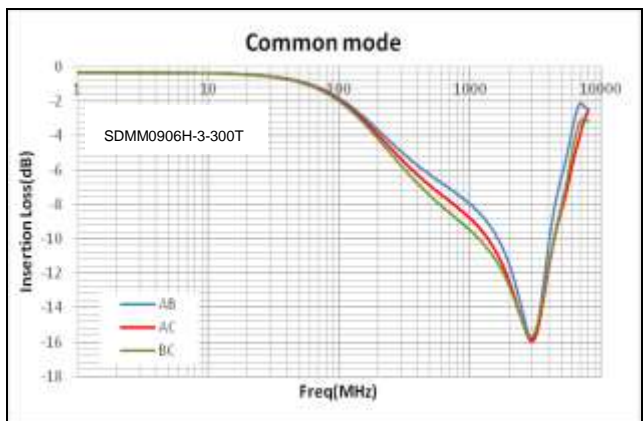
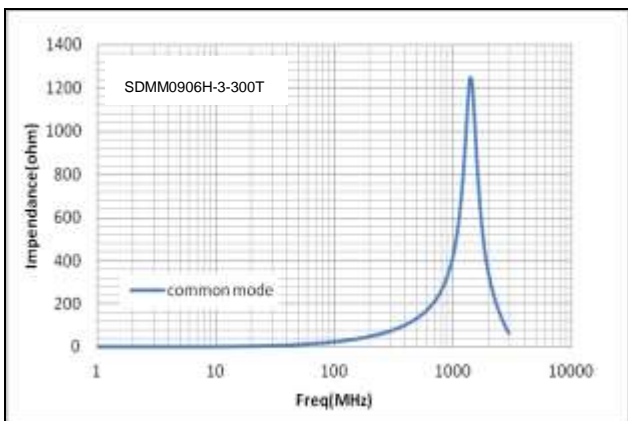
Part Number	Common Mode Impedance @ 100MHz	Max. DC Resistance	Max. Rated Current	Rated Voltage	Min. Insulation Resistance	Cutoff Frequency (typ.)
Units	$\Omega$	$\Omega$	mA	Volts	M $\Omega$	GHz
Symbol	Z	DCR	I <sub>r</sub>	V <sub>DC</sub>	IR	f <sub>0</sub>
ECMM0806U-2-120T	12±5	2.5	130	5	100	>8
ECMM0806U-2-350T	35±20%	3.5	100	5	100	>6
ECMM0806U-2-470T	47±20%	4.0	100	5	100	6
ECMM0806U-2-900T	90±20%	4.5	100	5	100	3.5

# ELECTRICAL CHARACTERISTICS

## ECMM0605H Series

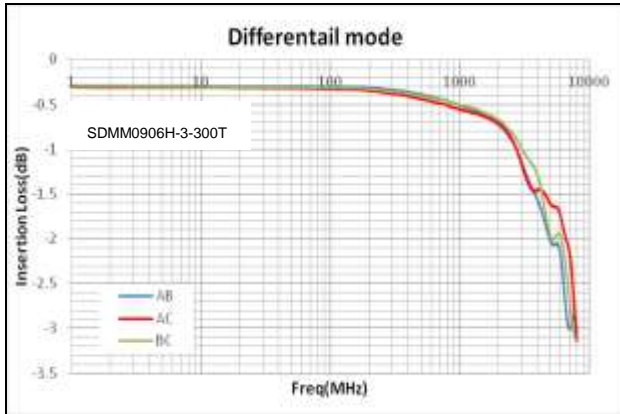


## ECMM0906H Series

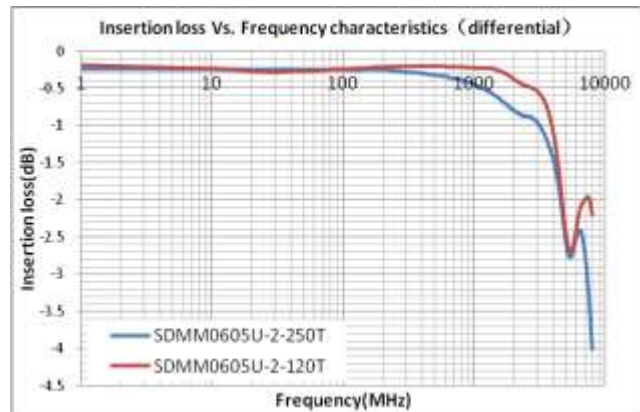
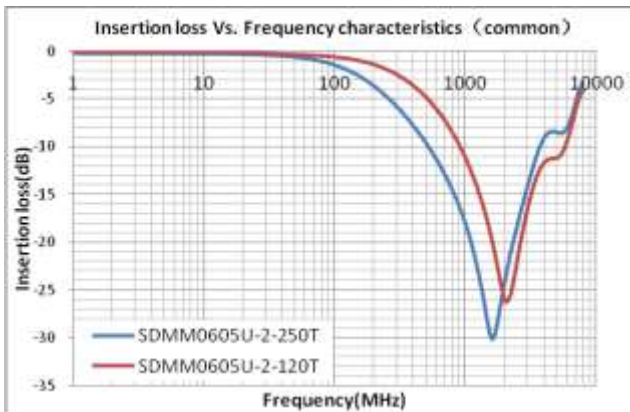
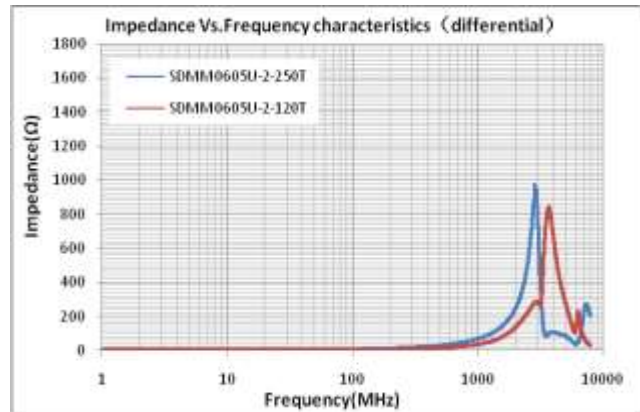
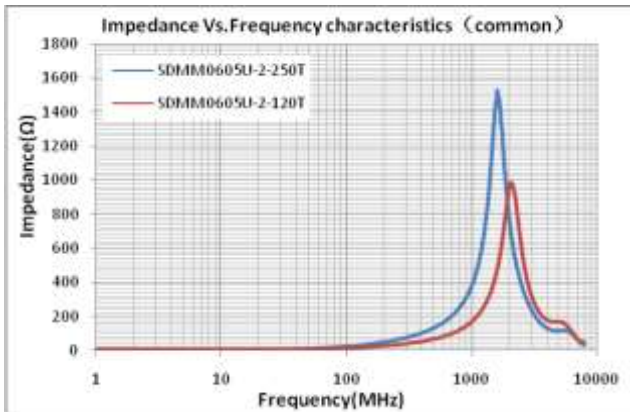


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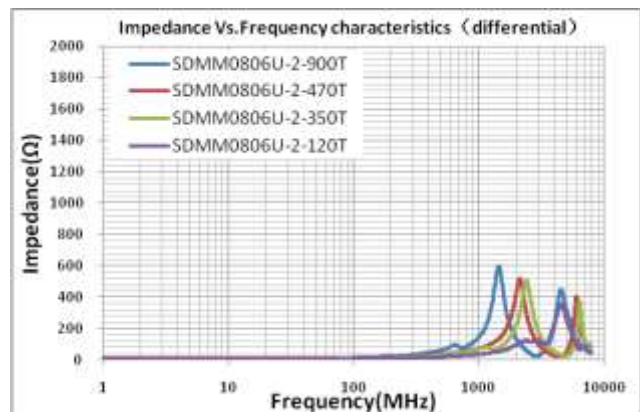
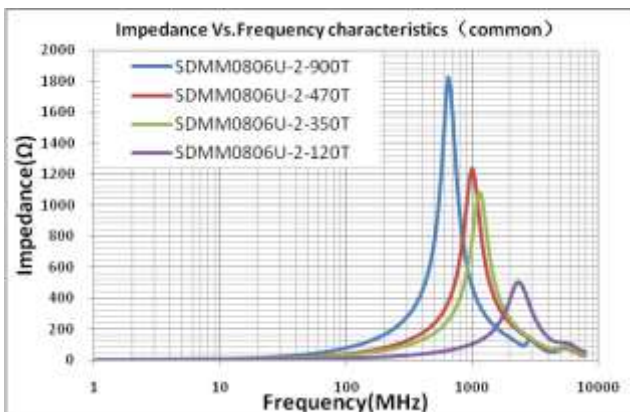
## ECMM0906H Series



## ECMM0605U Series



## ECMM0806U Series



# ELECTRICAL CHARACTERISTICS

ECMM0806U Series

