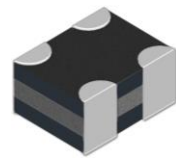


Multilayer Chip Common Mode Filter– SDMM Series

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

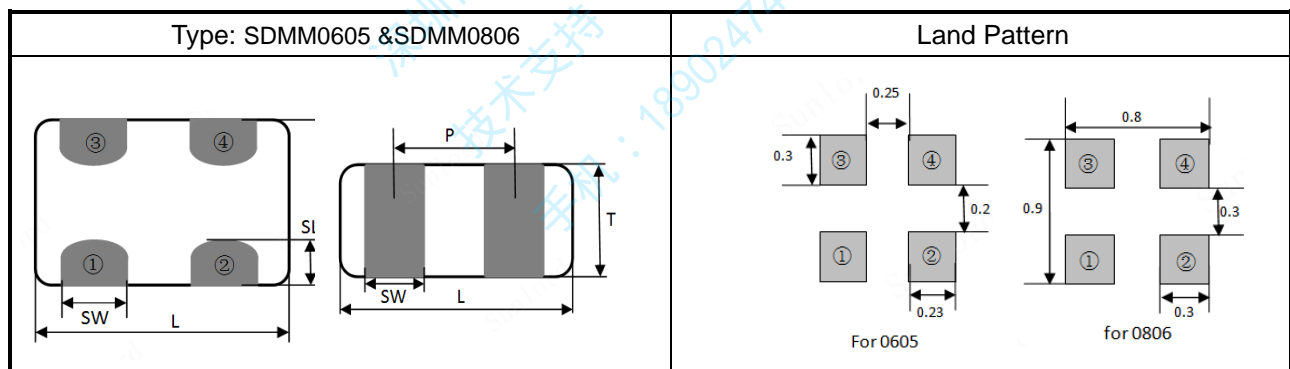
APPLICATIONS

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

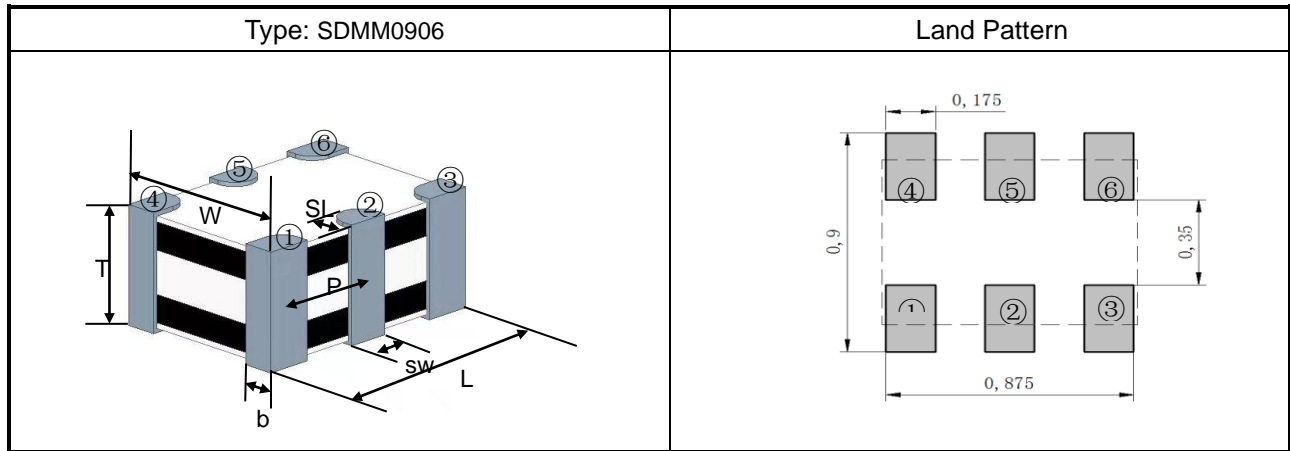
PRODUCT IDENTIFICATION

<u>SDMM</u>	<u>0806</u>	<u>U</u>	<u>-2</u>	<u>900</u>	<u>T</u>																		
①	②	③	④	⑤	⑥																		
①	②		⑤		③																		
<table border="1"> <tr><th colspan="2">Type</th></tr> <tr><td>SDMM</td><td>Multilayer Chip Common Mode Filter</td></tr> </table>	Type		SDMM	Multilayer Chip Common Mode Filter	<table border="1"> <tr><th colspan="2">External Dimensions (LxW) (mm)</th></tr> <tr><td>0605</td><td>0.65x0.50</td></tr> <tr><td>0806</td><td>0.85x0.65</td></tr> <tr><td>0906</td><td>0.90x0.68</td></tr> </table>		External Dimensions (LxW) (mm)		0605	0.65x0.50	0806	0.85x0.65	0906	0.90x0.68	<table border="1"> <tr><th colspan="2">Feature Type</th></tr> <tr><td>H</td><td>for High-Speed Differential Signal Lines</td></tr> <tr><td>U</td><td>for Ultra High Speed Differential Signal Lines</td></tr> </table>		Feature Type		H	for High-Speed Differential Signal Lines	U	for Ultra High Speed Differential Signal Lines	
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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



SPECIFICATIONS

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 _r	VDC	V _p	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 _r	V _p	IR
SDMM0906H-3-300T	30±20%	4.0	50	12.5	100

SPECIFICATIONS

SDMM0605U 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	M Ω
Symbol	Z	DCR	I _r	VDC	V _p	IR
SDMM0605U-2-120T	12±5	2.5	50	5	12.5	100
SDMM0605U-2-250T	25±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	Ω	Ω	mA	M Ω	GHz
Symbol	Z	DCR	I _r	IR	f ₀
SDMM0806U-2-120T	12±5	2.5	130	100	>8
SDMM0806U-2-350T	35±20%	3.5	100	100	>6
SDMM0806U-2-470T	47±20%	4.0	100	100	6
SDMM0806U-2-900T	90±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

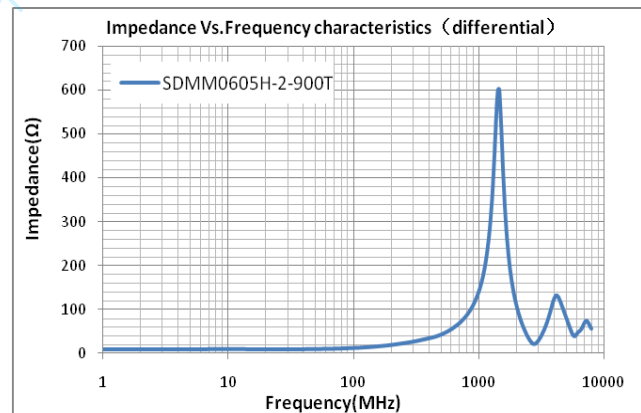
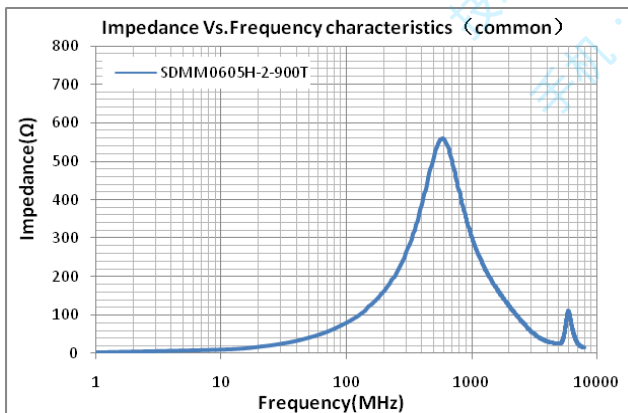
SDMM0806U-J01 Series

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	M Ω
Symbol	Z	DCR	I _r	VDC	V _p	IR
SDMM0806U-2-120TJ01	12±5	2.5	130	1.5	12.5	100
SDMM0806U-2-900TJ01	90±20%	4.5	100	1.5	12.5	100

*Note: V_{dcc} is a long term direct-current voltage difference which between D+ and D- of differential lines.

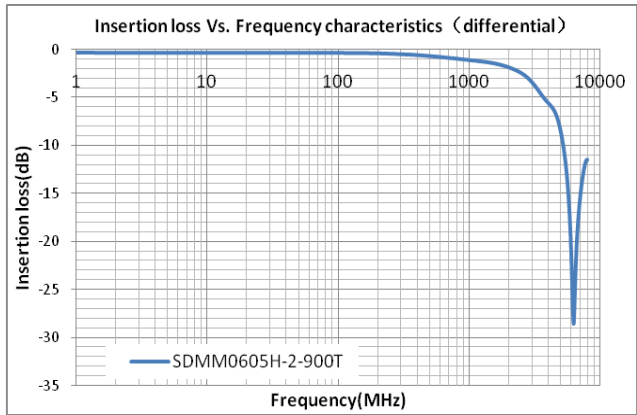
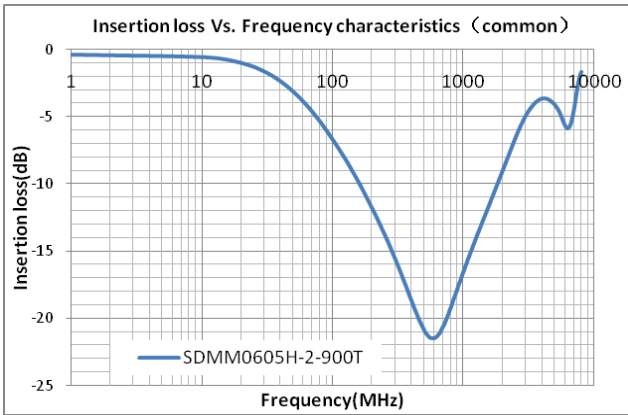
ELECTRICAL CHARACTERISTICS

SDMM0605H Series

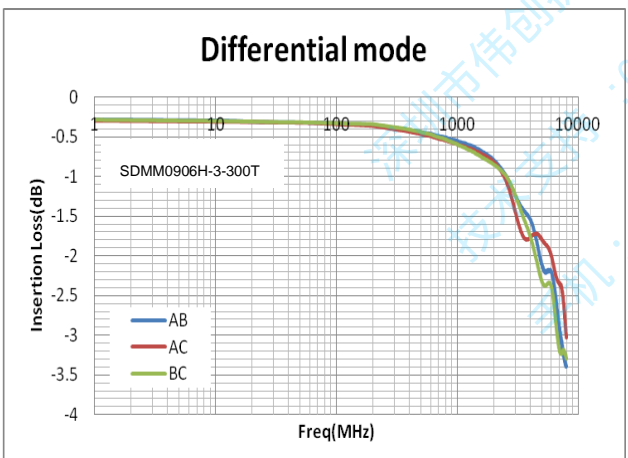
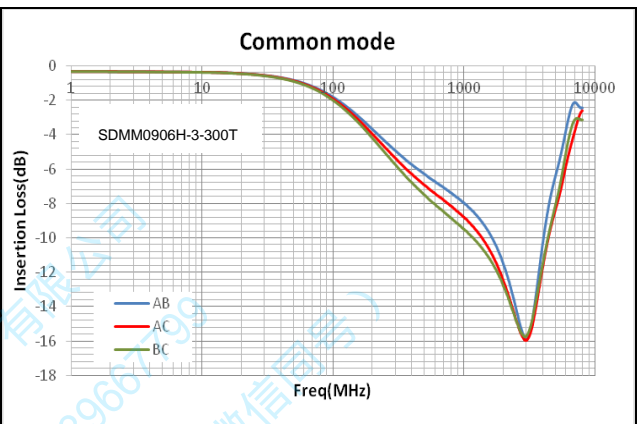
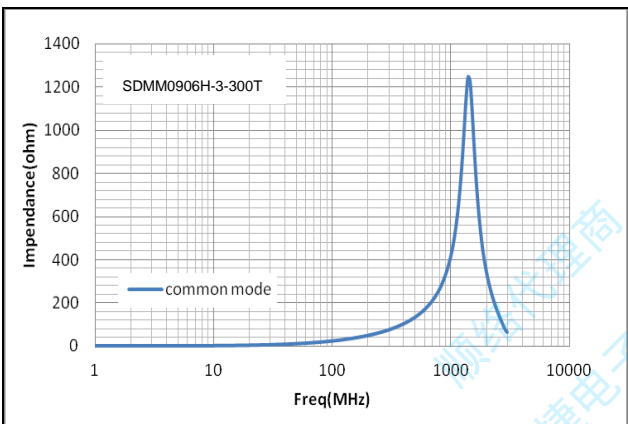


ELECTRICAL CHARACTERISTICS

SDMM0605H Series

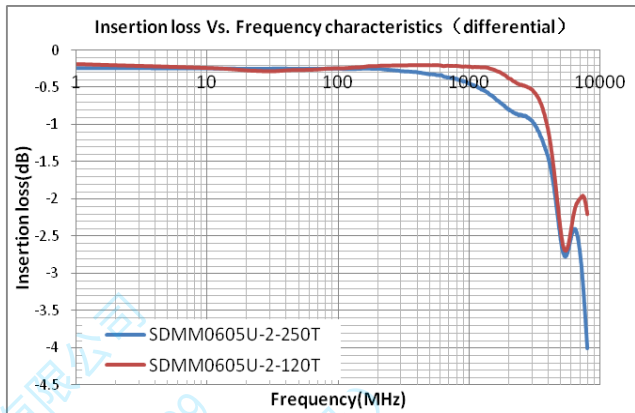
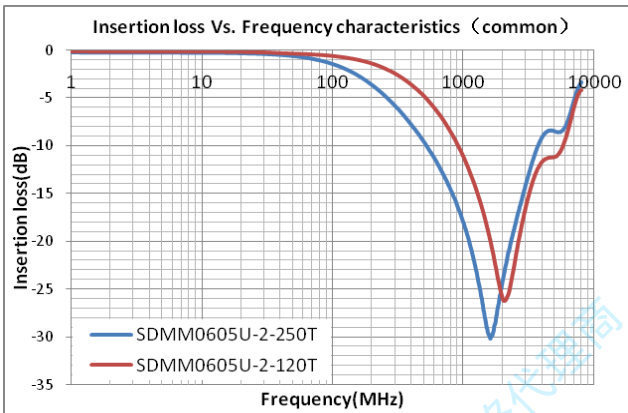
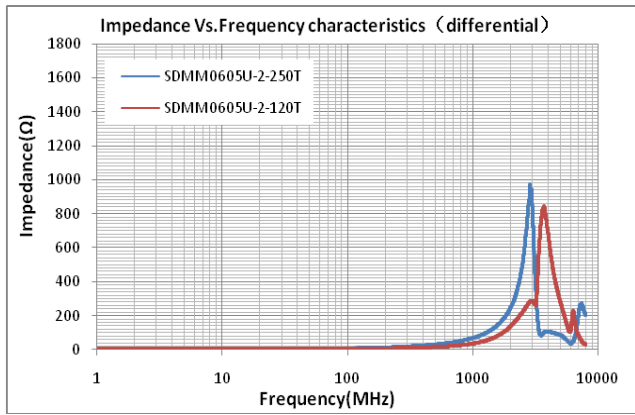
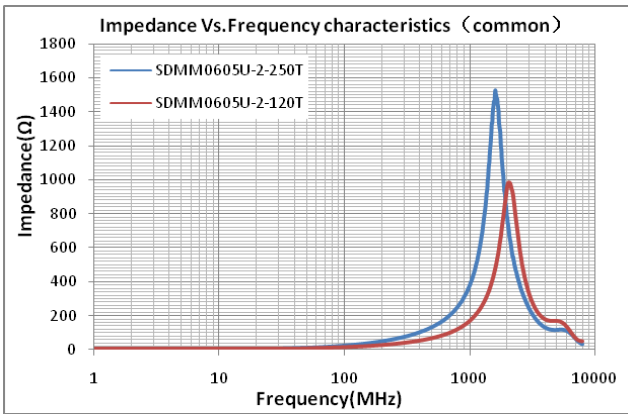


SDMM0906H Series

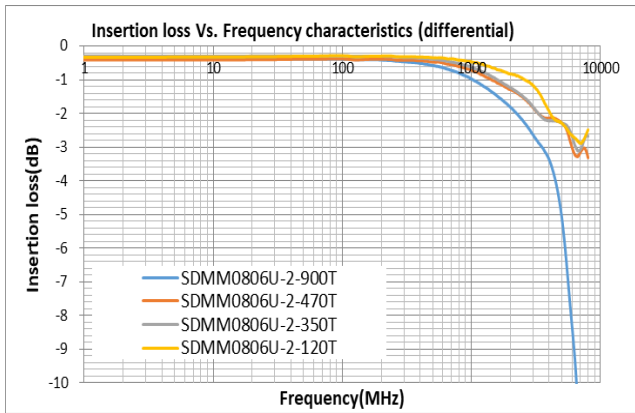
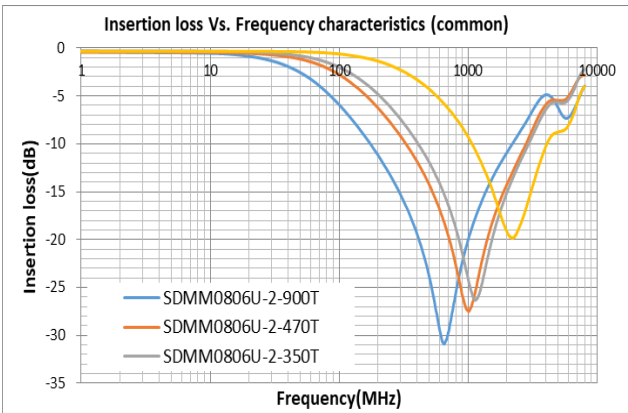
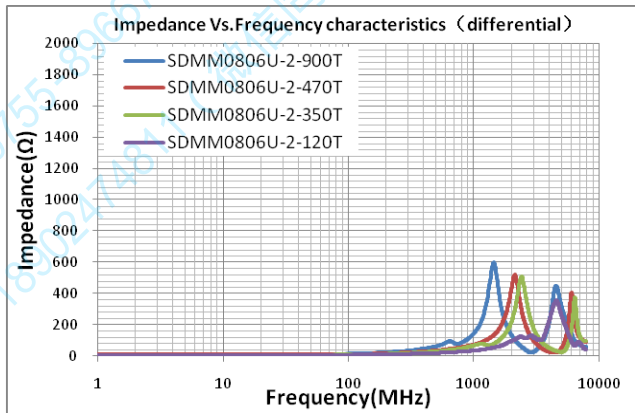
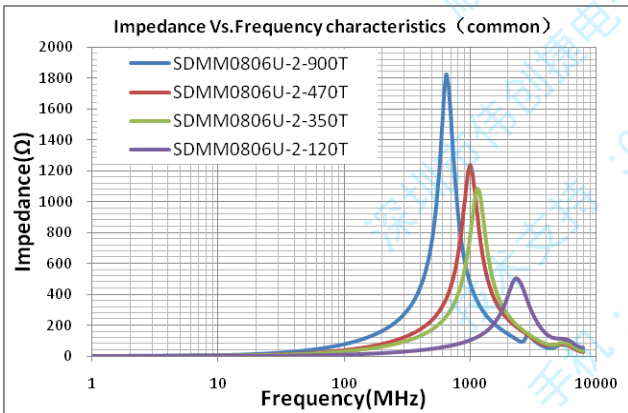


ELECTRICAL CHARACTERISTICS

SDMM0605U Series

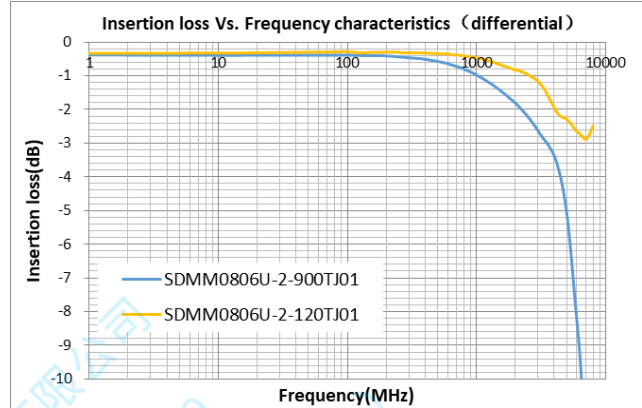
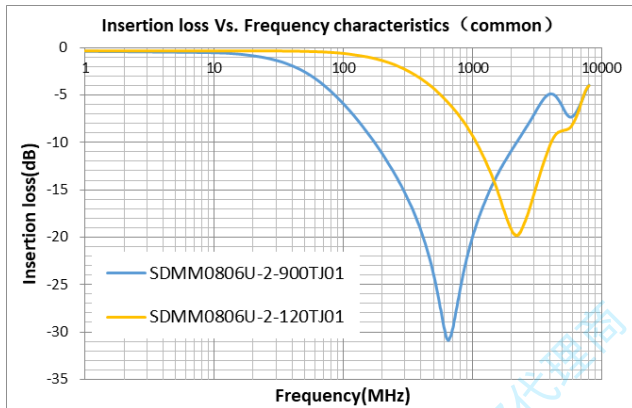
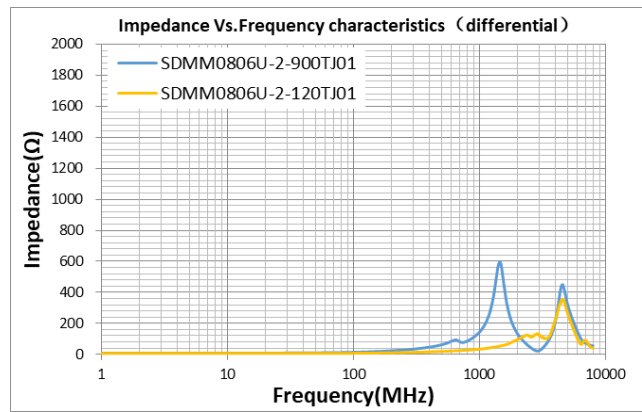
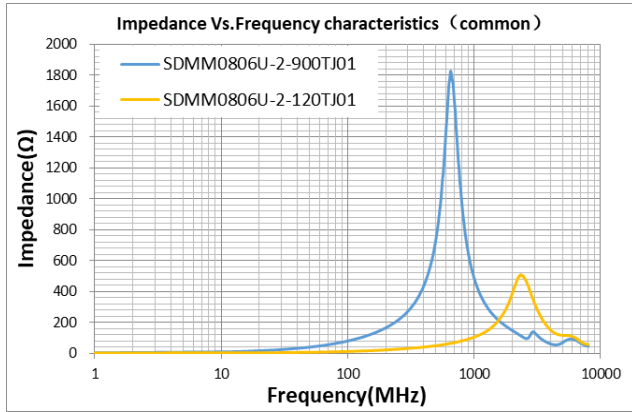


SDMM0806U Series



ELECTRICAL CHARACTERISTICS

SDMM0806U-J01 Series



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