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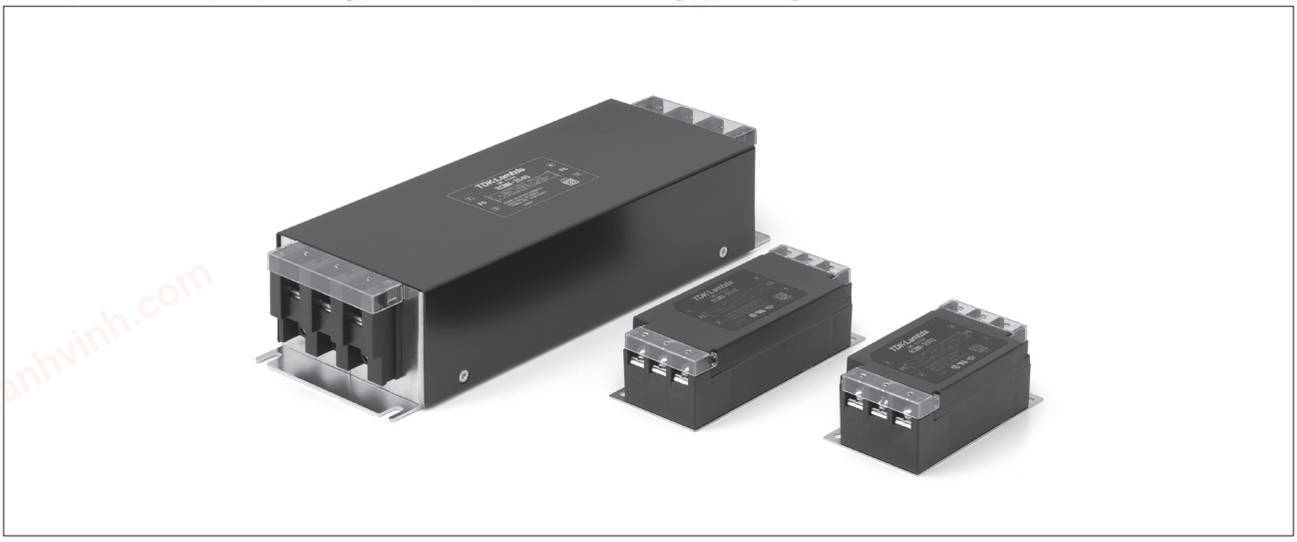
RSMN SERIES

Compact Multipurpose Type Compatible with High-Voltage Pulse



■ FEATURES

- EMC filter equipped with an amorphous core as the common mode coil core for the RSHN series, which helps prevent devise errors, and can also withstand current saturation.
- Self-tightening screws and an open/close type cover make wiring work easier.
- Optional low-leakage characteristic type and DIN rail installation compatible type are also available.

■ SAFETY STANDARDS

UL1283	UL File No. E62388
CSA C22.2 No.8	CSA File No. LR76849 (Up to 30A)
EN60939	Licence Ref. No. SE/07115-3

■ PRODUCT IDENTIFICATION

RSMN –2 *** □

- N/A：Standard Type
- D ：DIN rail installation compatible type (Up to 30A)
- L ：Low-leakage current characteristic type (Up to 30A)
- LD ：Low-leakage current characteristic and DIN rail installation compatible type (Up to 30A)

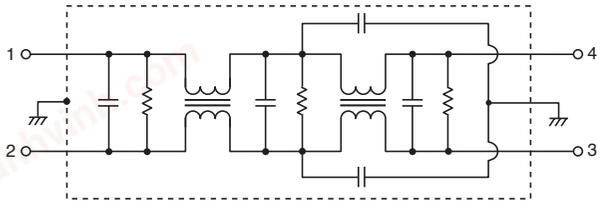
*** : Rated current

–2 : Number indicating the rated voltage

RSMN : Series name

■ CONFORMITY TO RoHS Directive

■ CIRCUIT DIAGRAMS



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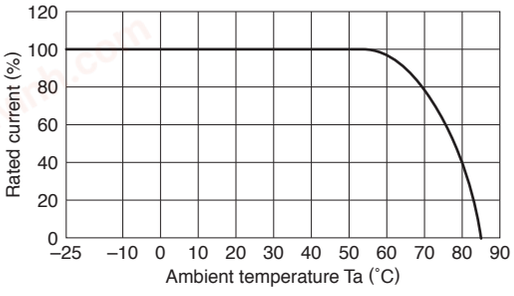
■ ELECTRICAL CHARACTERISTICS

Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range)(MHz)			Weight (g)
									Common mode		Differential mode	
									at 25dB	at 20dB	at 25dB	
RSMN-2003	250V	3A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	1.0mA max. [250V/60Hz]	-25 to +85℃	55℃	350 max.	0.1 to 30	-	0.1 to 30	190
RSMN-2006		6A						140 max.	-	0.1 to 30	0.2 to 30	240
RSMN-2010		10A						60 max.	0.2 to 30	-	0.2 to 30	240
RSMN-2016		16A						35 max.	0.2 to 30	-	0.3 to 30	350
RSMN-2020		20A						22 max.	0.3 to 20	-	0.4 to 30	350
RSMN-2030		30A						12 max.	0.4 to 20	-	0.6 to 30	350
RSMN-2040		40A						10 max.	0.3 to 30	-	0.1 to 30	960
RSMN-2050		50A						8 max.	0.4 to 30	-	0.3 to 30	960
RSMN-2060		60A						6 max.	0.5 to 30	-	0.3 to 30	960

Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)			Weight (g)
									Common mode		Differential mode	
									at 25dB	at 10dB	at 25dB	
RSMN-2003L	250V	3A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	100μA max. [250V/60Hz]	-25 to +85℃	55℃	350 max.	0.3 to 30	-	0.2 to 30	190
RSMN-2006L		6A						140 max.	0.4 to 20	-	0.2 to 30	240
RSMN-2010L		10A						60 max.	0.7 to 20	-	0.3 to 30	240
RSMN-2016L		16A						35 max.	0.7 to 20	-	0.3 to 30	350
RSMN-2020L		20A						22 max.	-	0.6 to 20	0.3 to 30	350
RSMN-2030L		30A						12 max.	-	1 to 20	0.4 to 30	350

■ DERATING GRAPH



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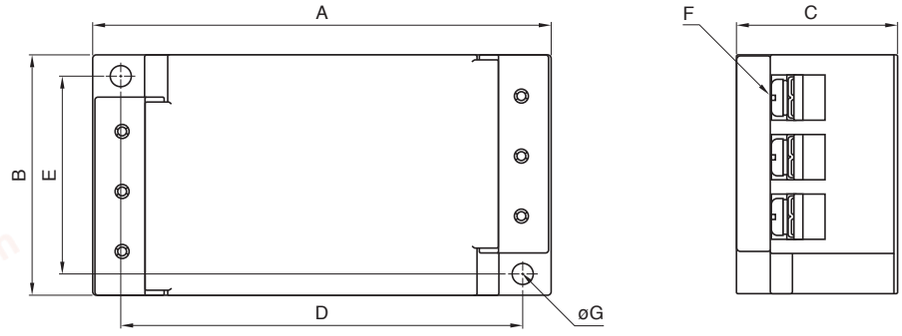
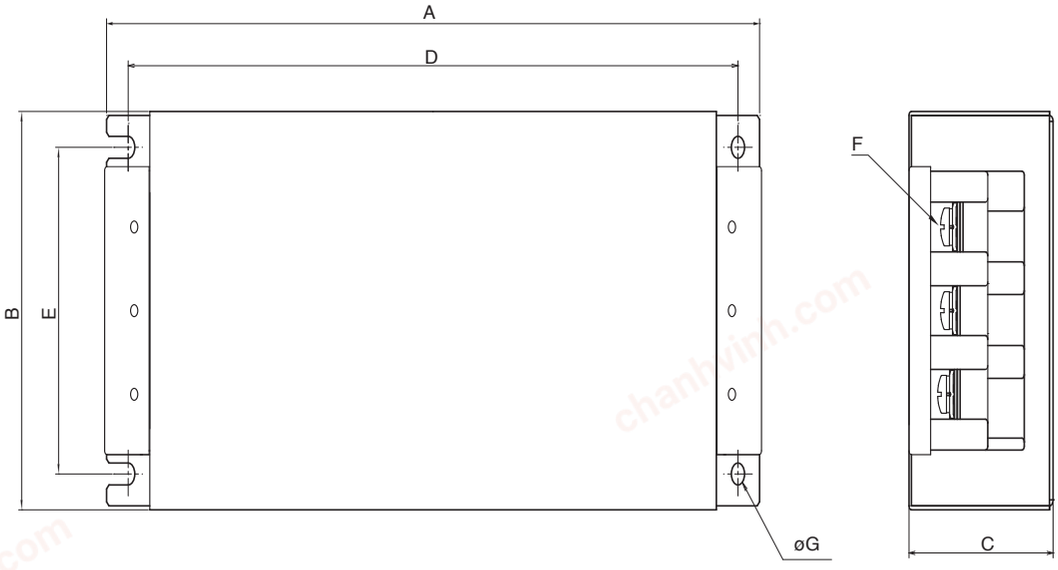
■ MECHANICAL

RSMN-2003/2006/2010/2016/2020/2030



RSMN-2040/2050/2060



Dimensions in mm

Part No.	A	B	C	D	E	F	ϕG	Recommended clamping torque
RSMN-2003	98	52	35	86	43	M4	4.5	1.27N・m
RSMN-2006								
RSMN-2010								
RSMN-2016	127	52	35	115	43	M4	4.5	
RSMN-2020								
RSMN-2030								
RSMN-2040	272	100	60	254	82	M5	5.5	2.5N・m
RSMN-2050								
RSMN-2060								

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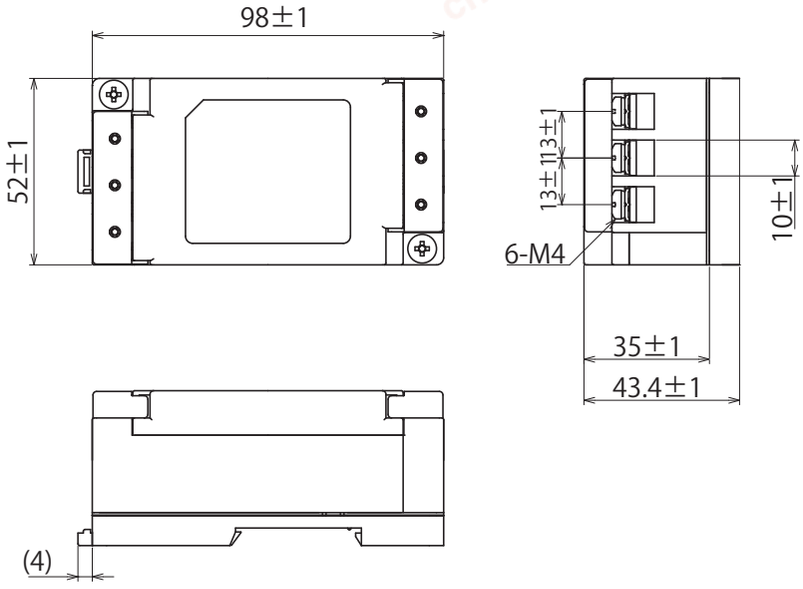
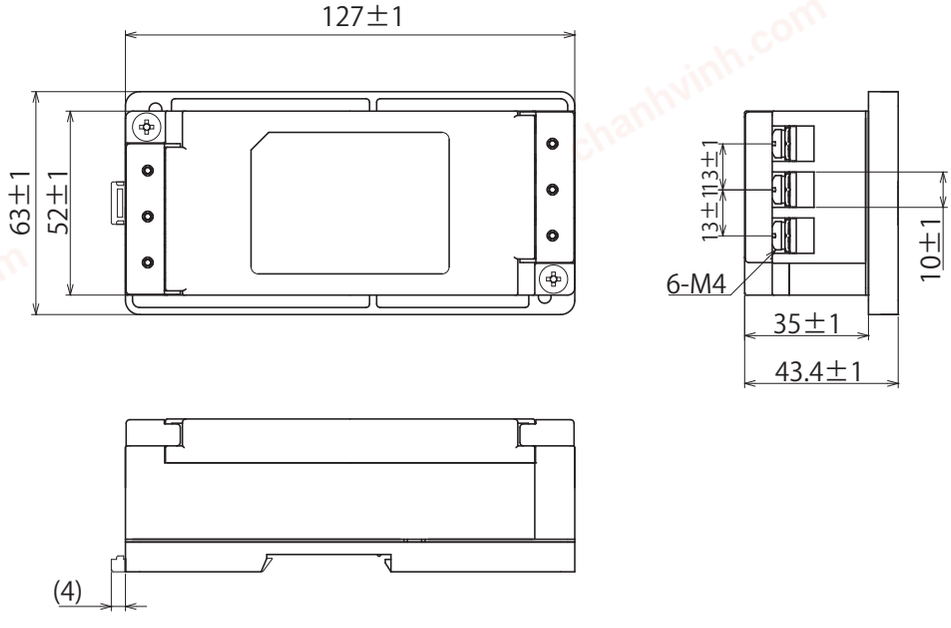
RSMN-2003D/2006D/2010D



RSMN-2016D/2020D/2030D



Dimensions in mm

*Please see the next page: "Precautions of DIN rail mounting".

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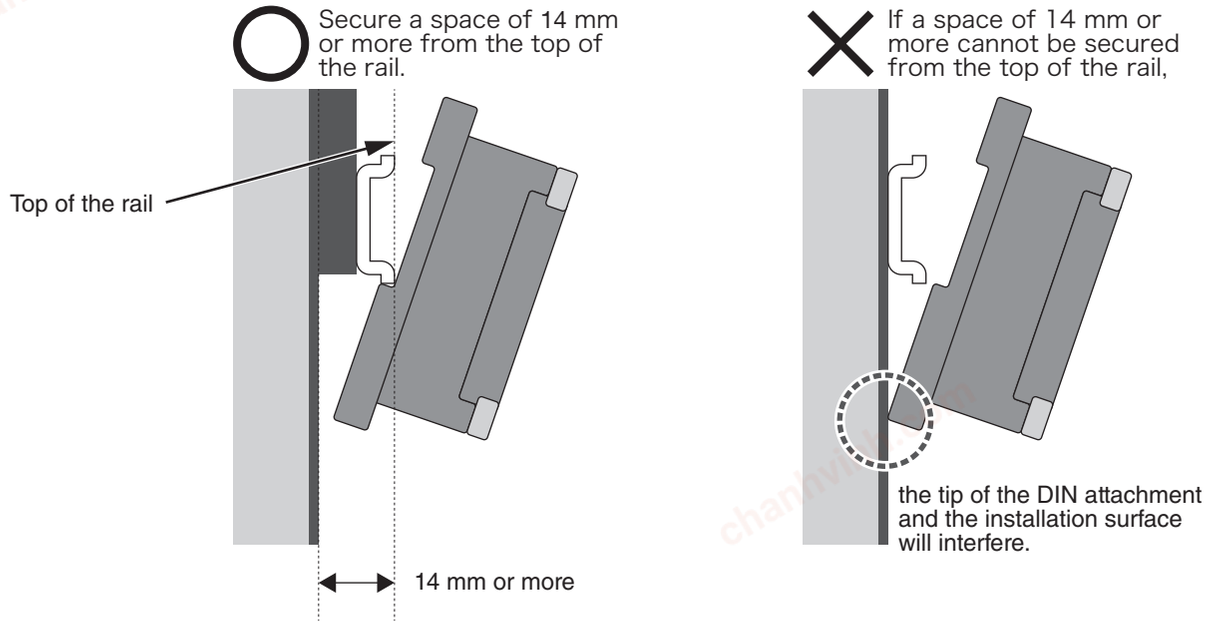
Precautions of DIN rail mounting

When installing on a DIN rail, secure a space with a depth of 14 mm or more from the top of the rail. If there is no depth space, the tip of the DIN attachment and the installation surface may interfere and it may not be possible to install it.



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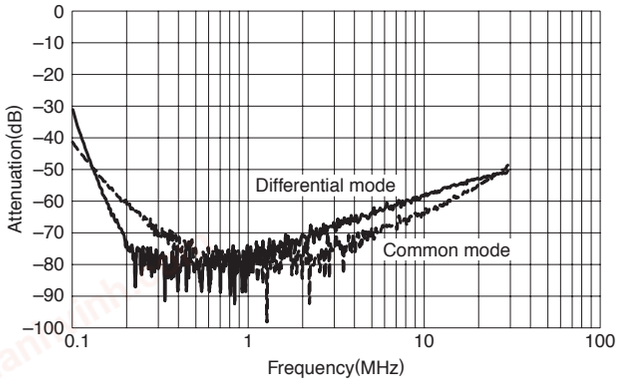
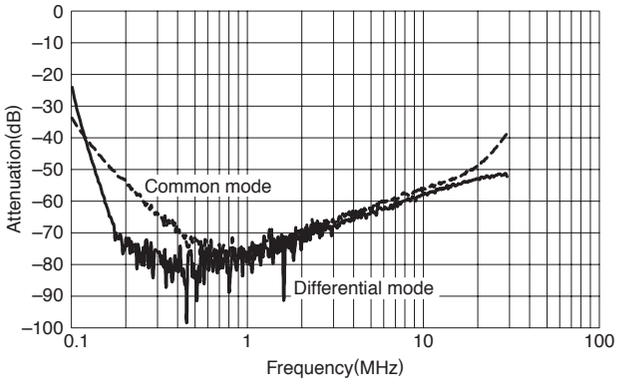
■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

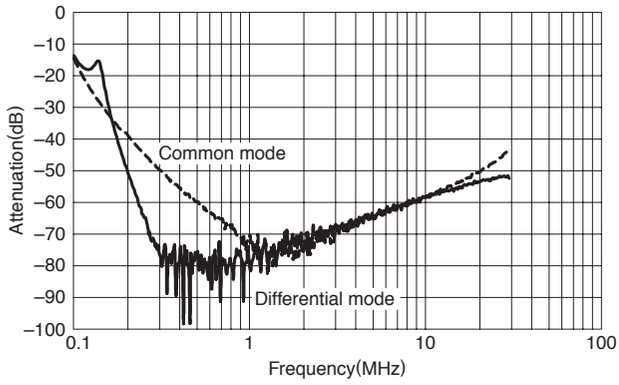
RSMN-2003



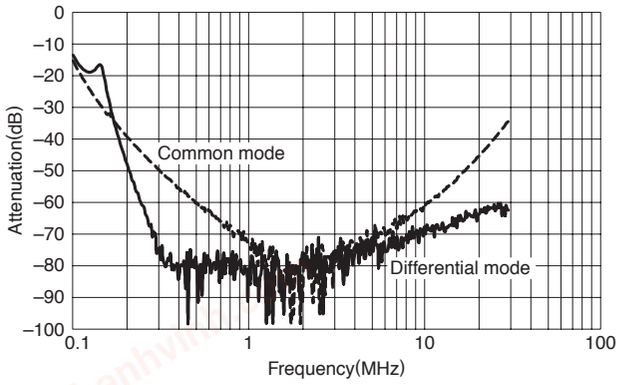
RSMN-2006



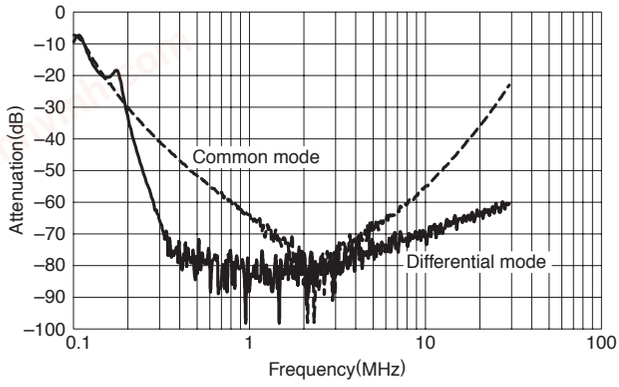
RSMN-2010



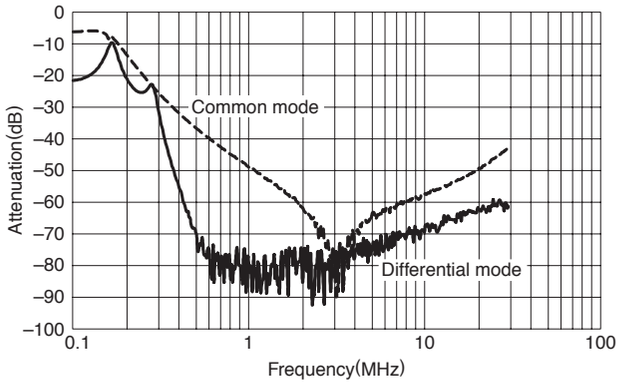
RSMN-2016



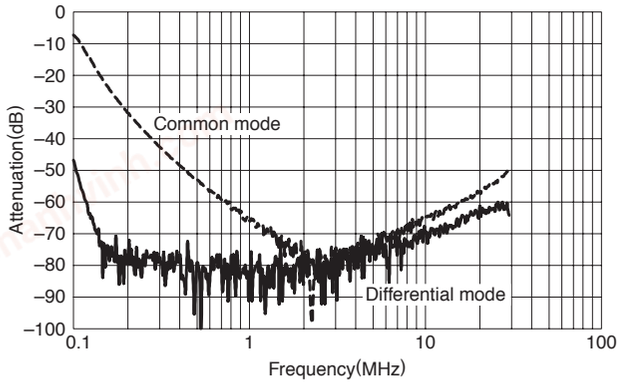
RSMN-2020



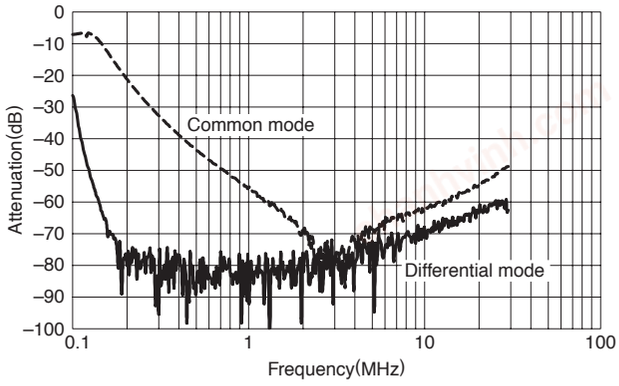
RSMN-2030



RSMN-2040



RSMN-2050



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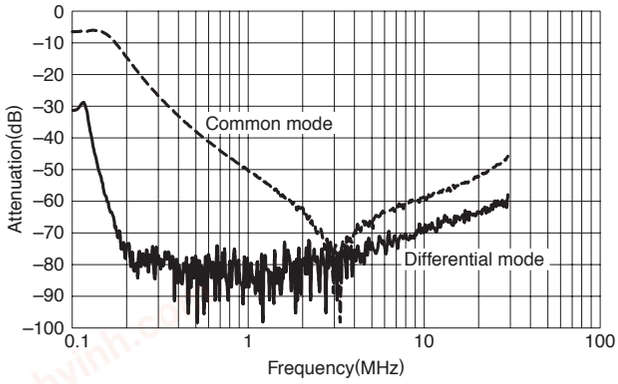
RSMN-2060



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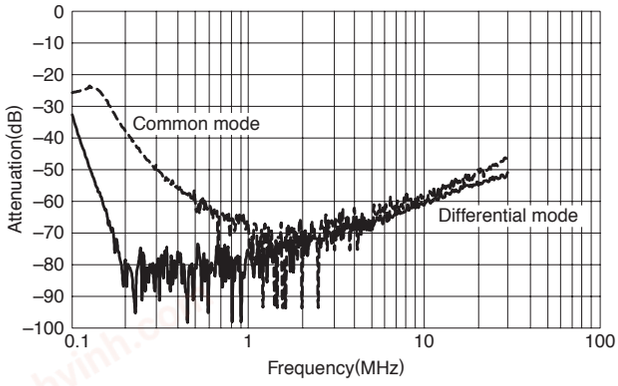
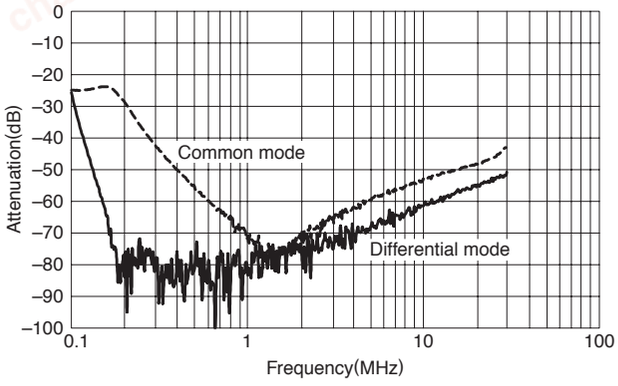
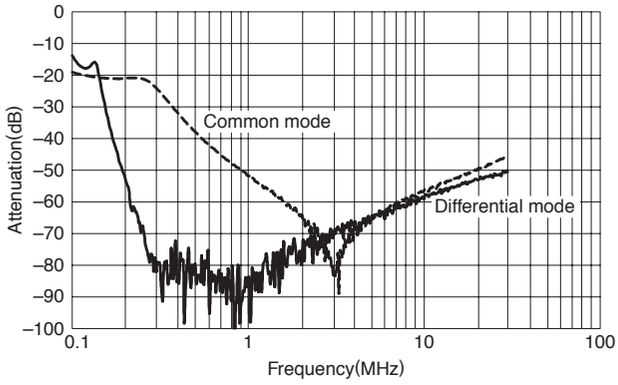
RSMN-2003L



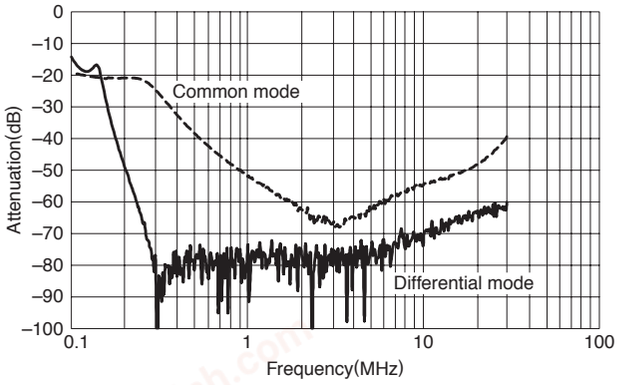
RSMN-2006L



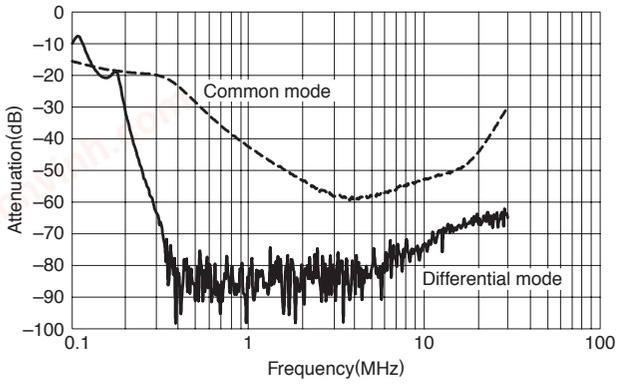
RSMN-2010L



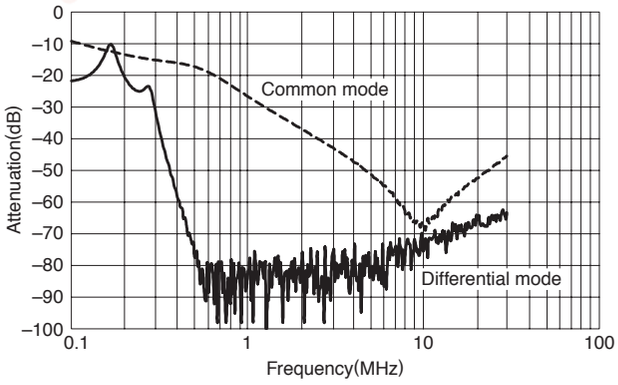
RSMN-2016L



RSMN-2020L



RSMN-2030L



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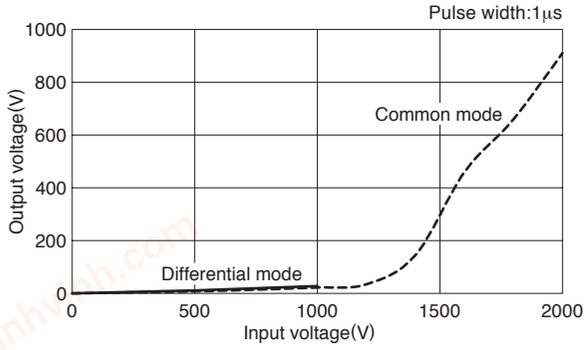
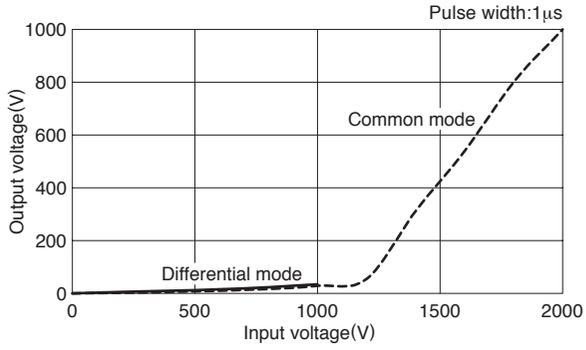
■ PULSE ATTENUATION CHARACTERISTICS

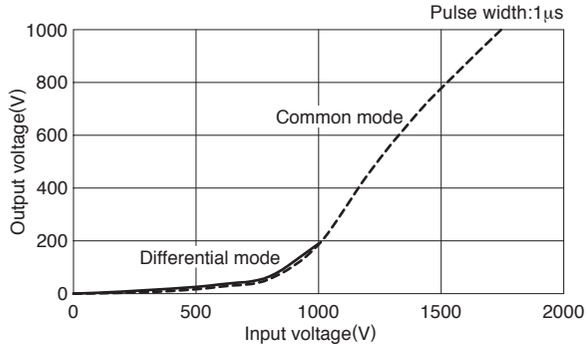
RSMN-2003/2003D



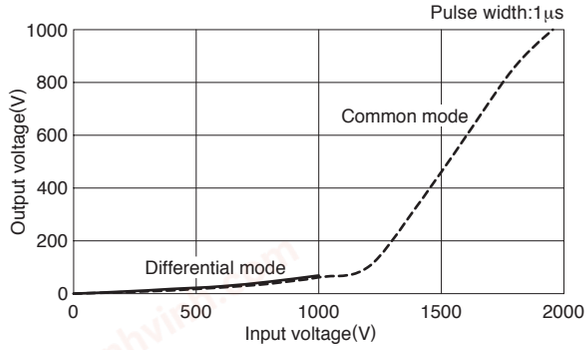
RSMN-2006/2006D



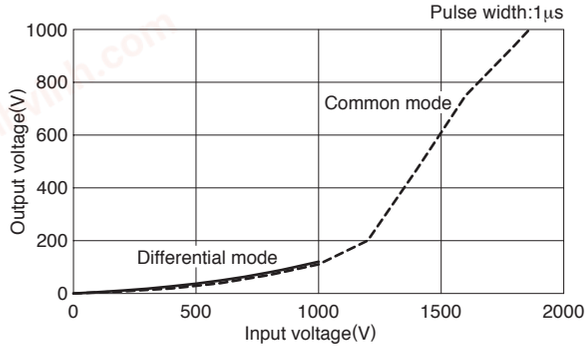
RSMN-2010/2010D



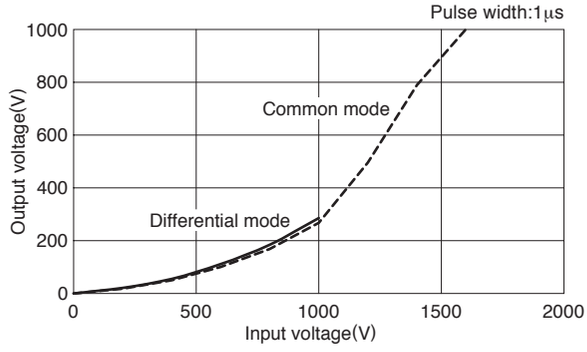
RSMN-2016/2016D



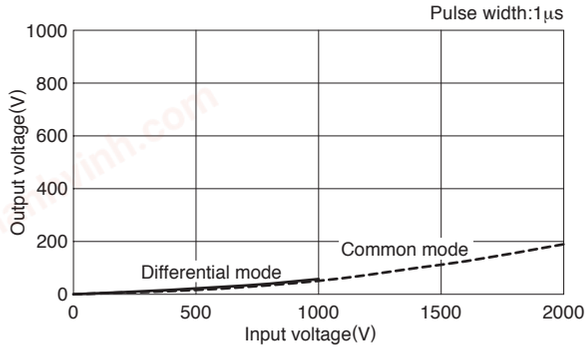
RSMN-2020/2020D



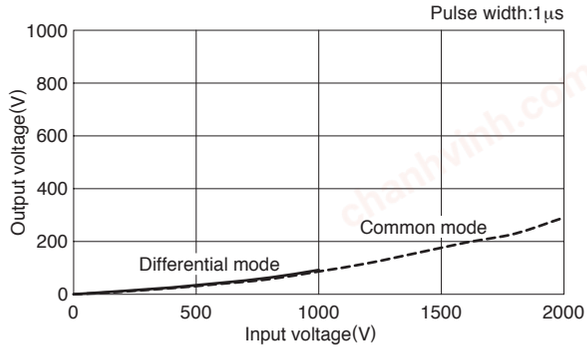
RSMN-2030/2030D



RSMN-2040



RSMN-2050



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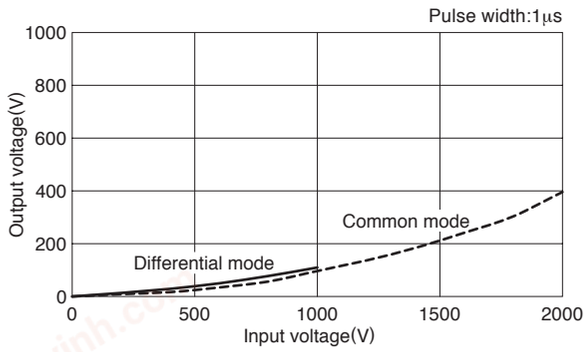
RSMN-2060



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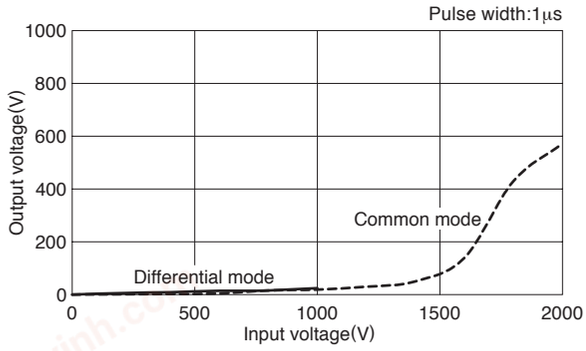
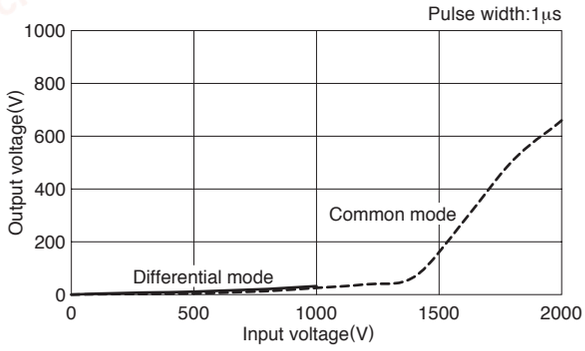
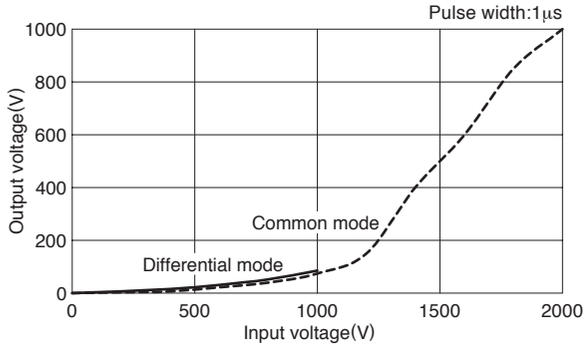
RSMN-2003L/LD



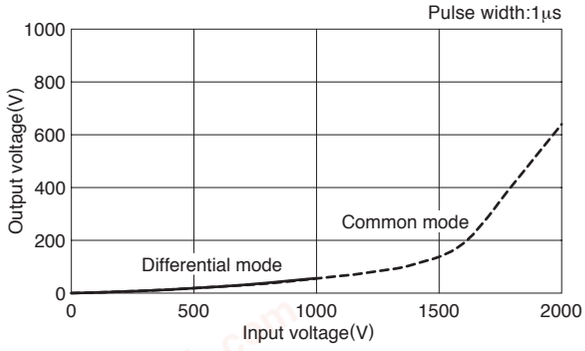
RSMN-2006L/LD



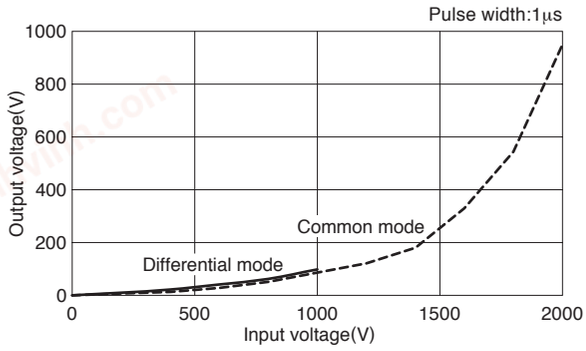
RSMN-2010L/LD



RSMN-2016L/LD



RSMN-2020L/LD



RSMN-2030L/LD

