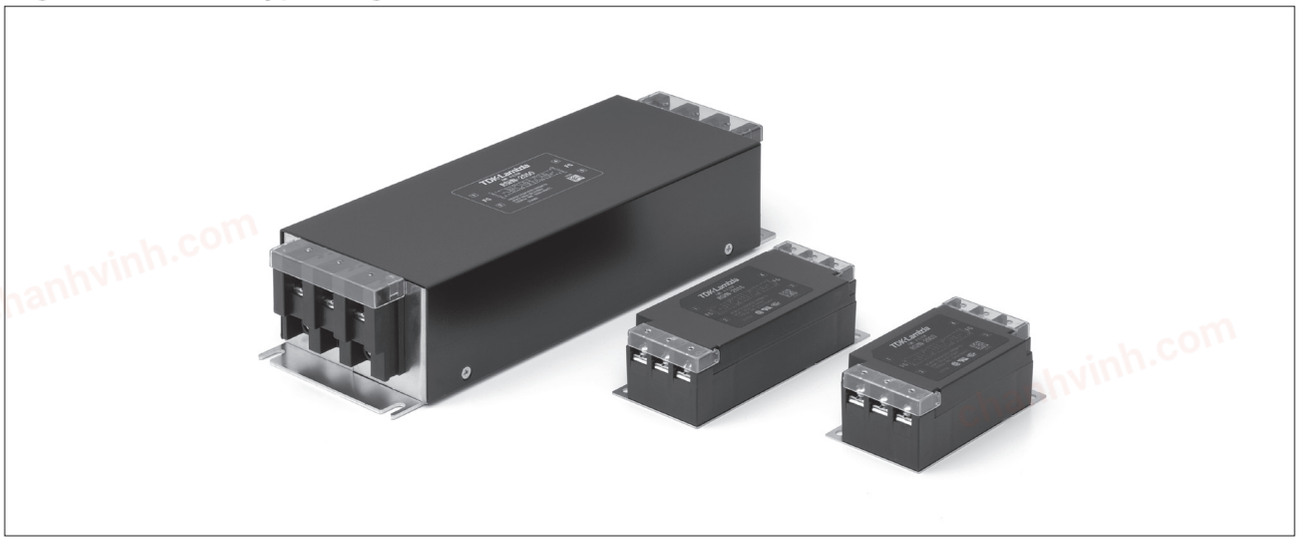
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RSHN SERIES

High-Attenuation Type Single-Phase Filter with Various Variations and Functions



■ FEATURES

- Self-tightening screws and an open/close type cover make wiring work easier.
- 3 to 300A wide range lineup.
- Optional low-leakage current characteristic type and DIN rail installation compatible type are also available.

■ SAFETY STANDARDS

UL1283	UL File No. E62388 (Up to 60A)
CSA C22.2 No.8	CSA File No. LR76849 (Up to 30A)
EN60939	Licence Ref. No. SE/07115-3 (Up to 60A)

■ PRODUCT IDENTIFICATION

RSHN -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)

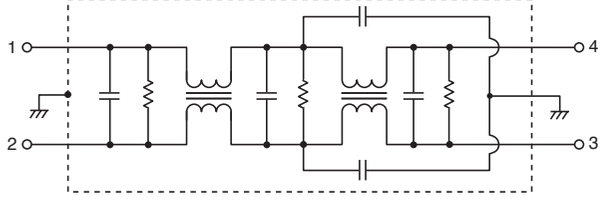
***: Rated current

2: Number indicating the rated voltage

RSHN: Series name

■ CONFORMITY TO RoHS Directive

■ CIRCUIT DIAGRAMS



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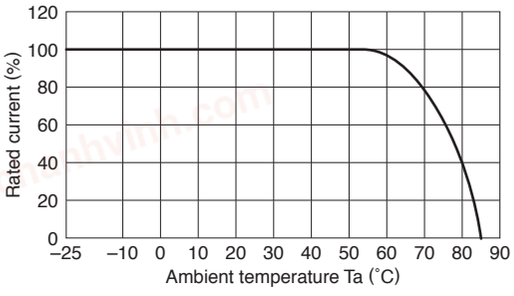
■ ELECTRICAL CHARACTERISTICS

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 (kg)
									Common mode		Differential mode	
									at 25dB	at 10dB	at 25dB	
RSHN-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 10	-	0.2 to 30	0.19
RSHN-2006		6A						140 max.	0.1 to 10	-	0.2 to 30	0.24
RSHN-2010		10A						60 max.	0.1 to 30	-	0.3 to 30	0.24
RSHN-2016		16A						35 max.	0.2 to 30	-	0.3 to 30	0.35
RSHN-2020		20A						22 max.	0.2 to 30	-	0.4 to 30	0.35
RSHN-2030		30A						12 max.	0.3 to 30	-	0.6 to 30	0.35
RSHN-2040		40A						10 max.	0.2 to 30	-	0.1 to 30	1.50
RSHN-2050		50A						8 max.	0.3 to 30	-	0.2 to 30	1.40
RSHN-2060		60A						6 max.	0.3 to 30	-	0.3 to 30	1.40
RSHN-2080		80A					50℃	7 max.	0.2 to 8	-	0.1 to 30	5.50
RSHN-2100		100A						6 max.	0.2 to 8	-	0.1 to 30	6.00
RSHN-2150		150A						4 max.	0.2 to 7	-	0.1 to 30	9.00
RSHN-2200		200A						3 max.	0.4 to 7	-	0.1 to 30	13.00
RSHN-2250		250A						2 max.	-	0.4 to 10	0.1 to 30	13.00
RSHN-2300		300A						1.5 max.	-	1 to 7	0.1 to 30	13.00

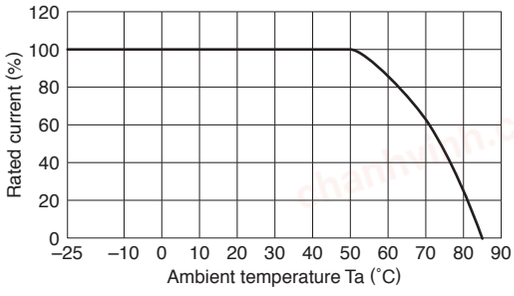
Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)		Weight (kg)
									Common mode	Differential mode	
									at 25dB	at 25dB	
RSHN-2003L	250V	3A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	100μA max. [250V/60Hz]	-25 to +85℃	55℃	350 max.	0.2 to 10	0.2 to 30	0.19
RSHN-2006L		6A						140 max.	0.2 to 10	0.2 to 30	0.24
RSHN-2010L		10A						60 max.	0.3 to 10	0.3 to 30	0.24
RSHN-2016L		16A						35 max.	0.3 to 30	0.3 to 30	0.35
RSHN-2020L		20A						22 max.	0.4 to 30	0.4 to 30	0.35
RSHN-2030L		30A						12 max.	0.6 to 30	0.6 to 30	0.35

■ DERATING GRAPHS

RSHN-2003/2006/2010/2016/2020/2030/ 2040/2050/2060



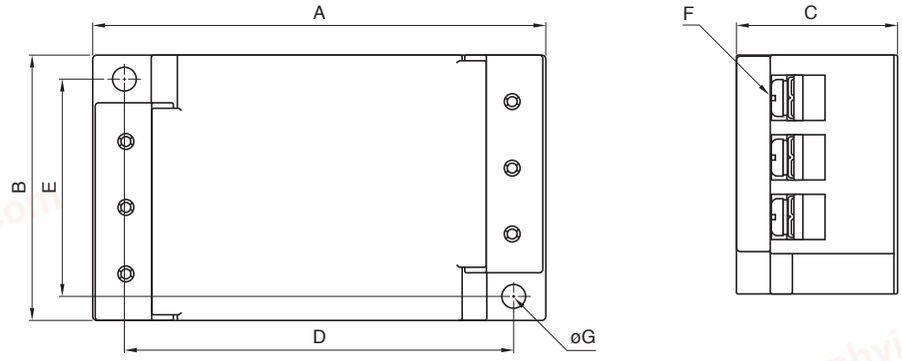
RSHN-2080/2100/2150/2200/2250/2300



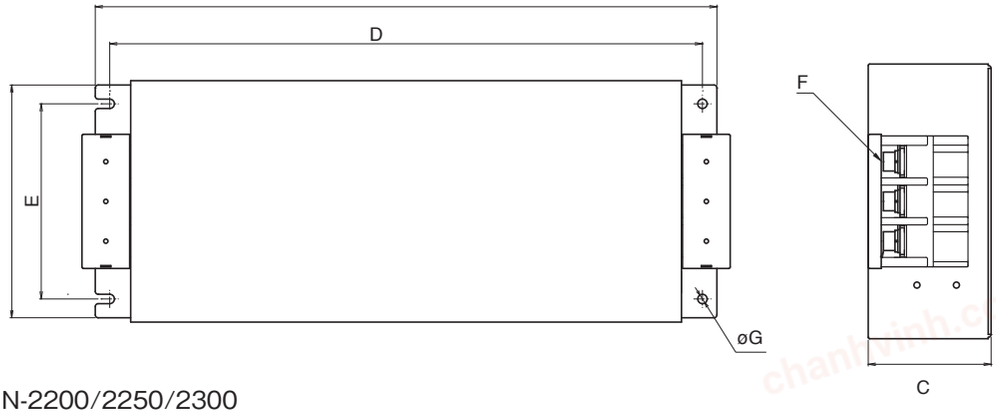
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■ MECHANICAL

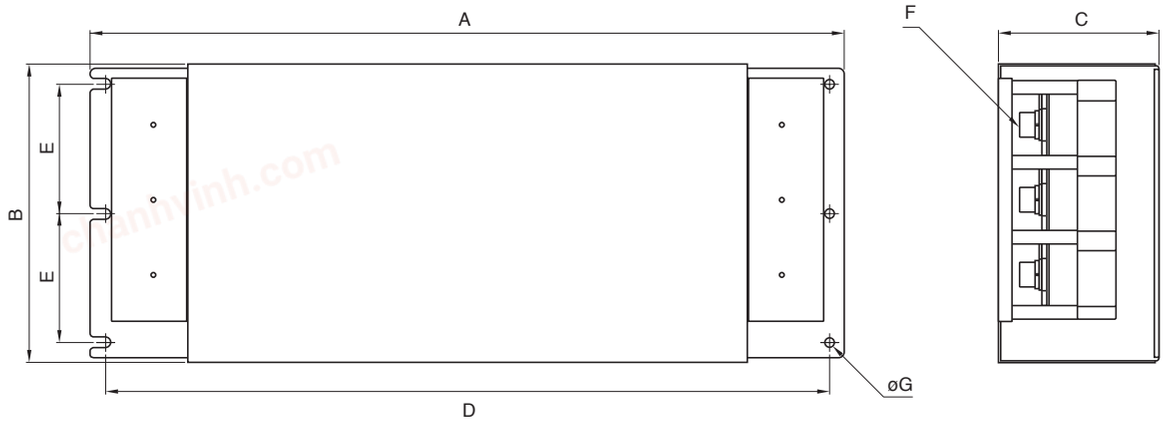
RSHN-2003/2006/2010/2016/2020/2030



RSHN-2040/2050/2060/2080/2100/2150



RSHN-2200/2250/2300

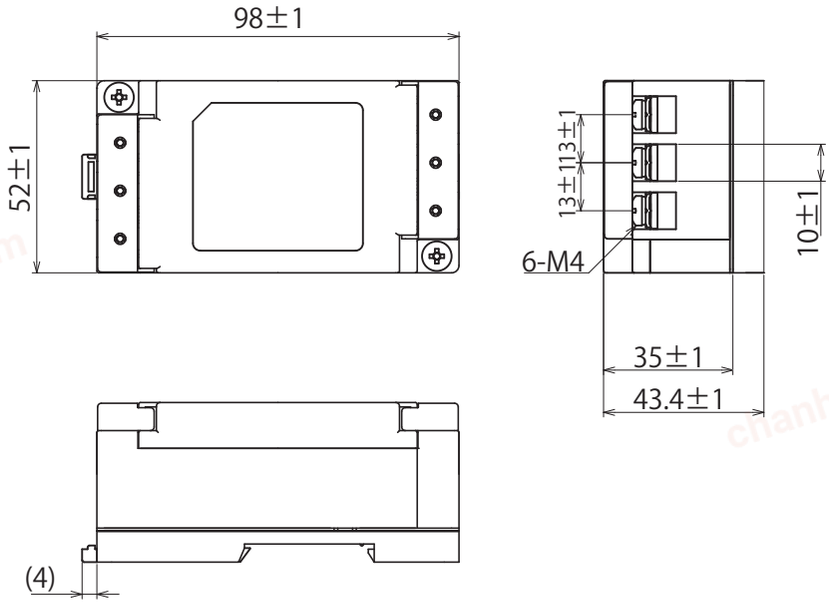


Dimensions in mm

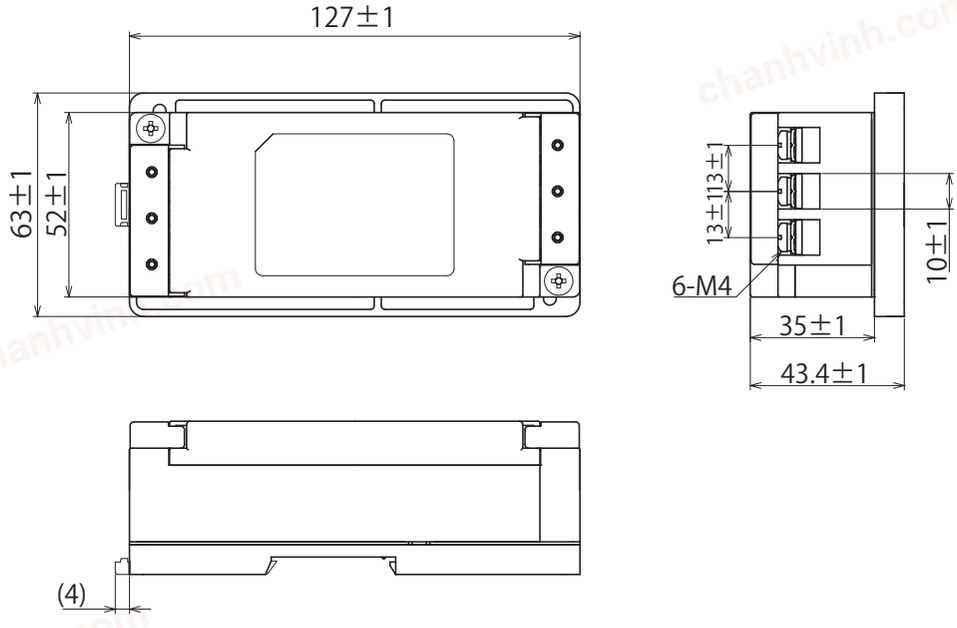
Part No.	A	B	C	D	E	F	ϕG	Recommended clamping torque
RSHN-2003	98	52	35	86	43	M4	4.5	1.27N・m
RSHN-2006								
RSHN-2010								
RSHN-2016	127	52	35	115	43	M4		
RSHN-2020								
RSHN-2030								
RSHN-2040	272	100	60	254	82	M5	5.5	2.5N・m
RSHN-2050								
RSHN-2060								
RSHN-2080	430	161	85	410	135	M8	6.5	7.64N・m
RSHN-2100								
RSHN-2150	473	190	88	453	164	M8		
RSHN-2200	593	195	103	573	84.5	M10		11.8N・m
RSHN-2250								
RSHN-2300								

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RSHN-2003D/2006D/2010D



RSHN-2016D/2020D/2030D



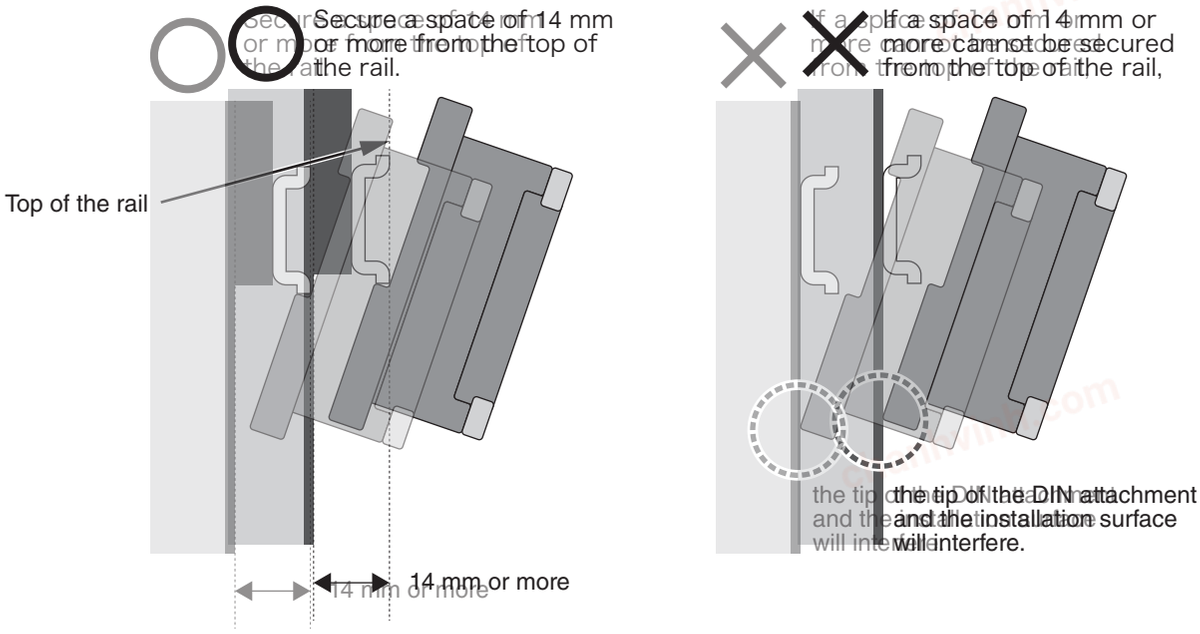
Dimensions in mm

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

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Precautions of DIN rail mounting

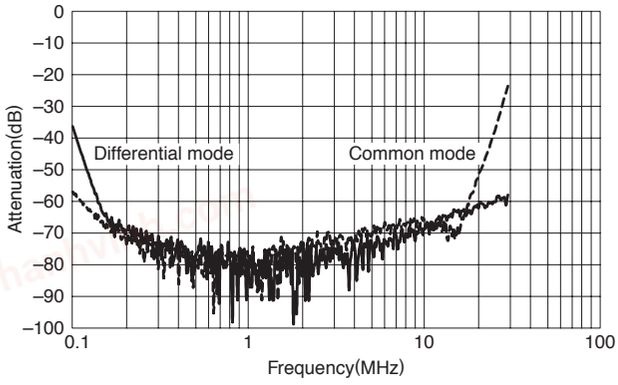
When installing on a DIN rail, secure a space with a depth of 14 mm or more from the top of the rail. If there is no depth space, the tip of the DIN attachment and the installation surface may interfere and it may not be possible to install it.



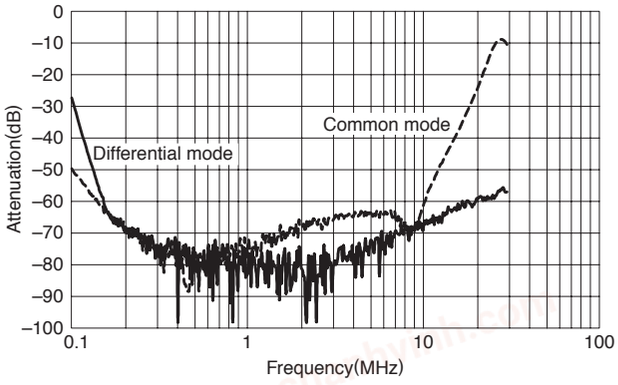
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■ ATTENUATION vs. FREQUENCY CHARACTERISTICS

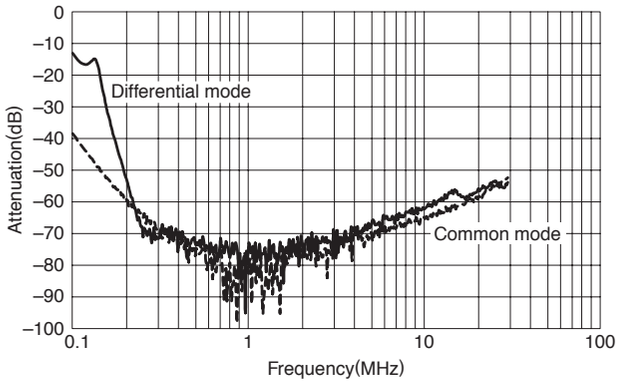
RSHN-2003



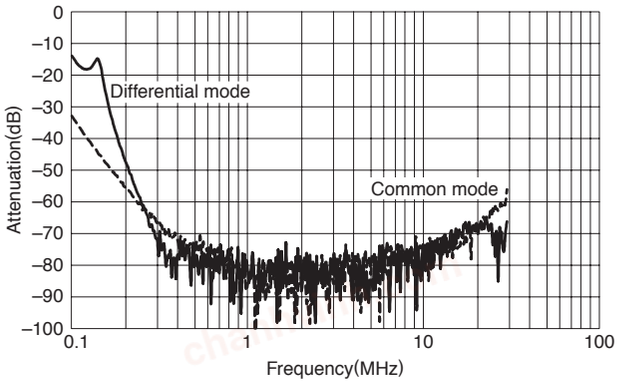
RSHN-2006



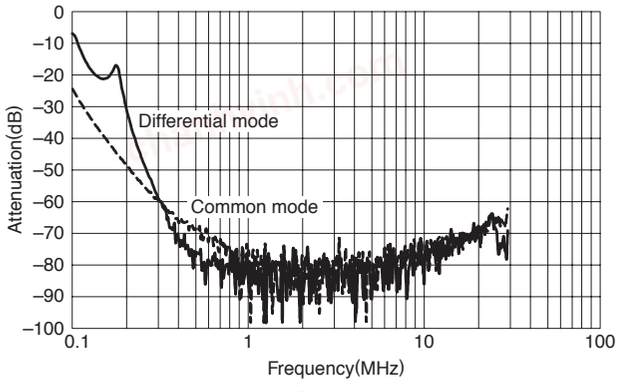
RSHN-2010



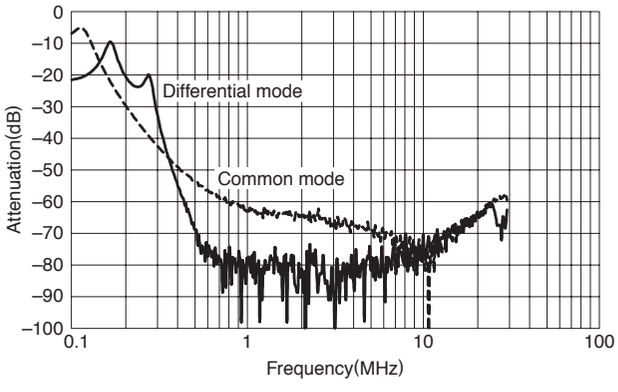
RSHN-2016



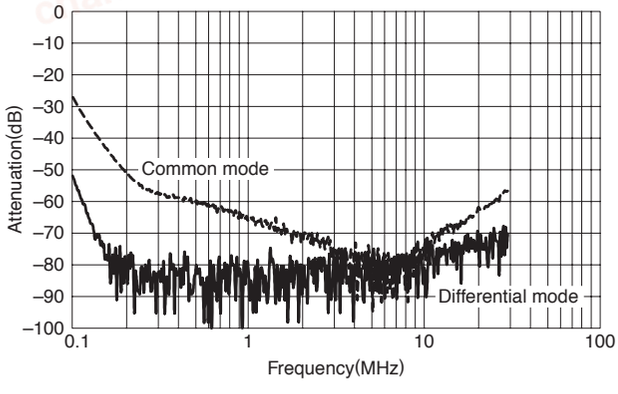
RSHN-2020



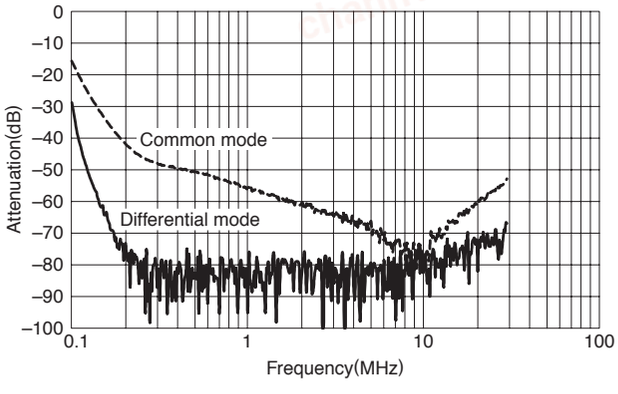
RSHN-2030



RSHN-2040

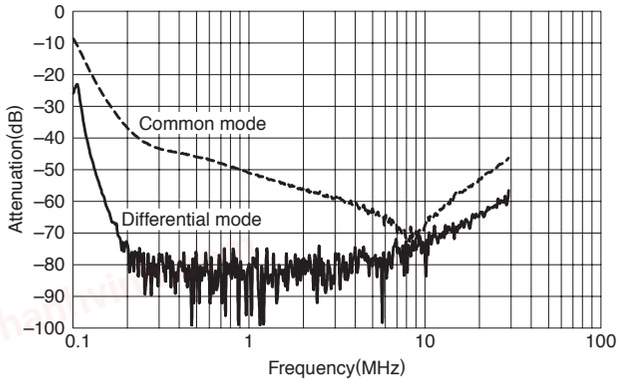


RSHN-2050

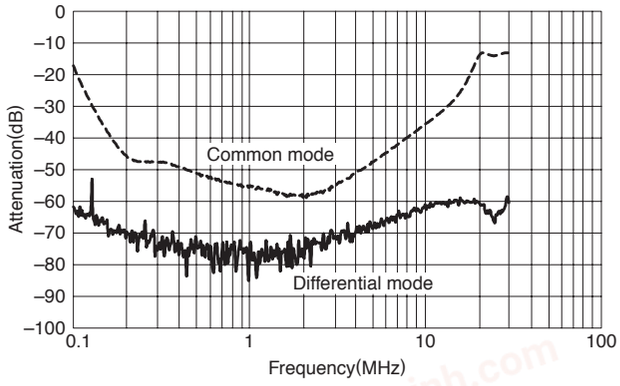


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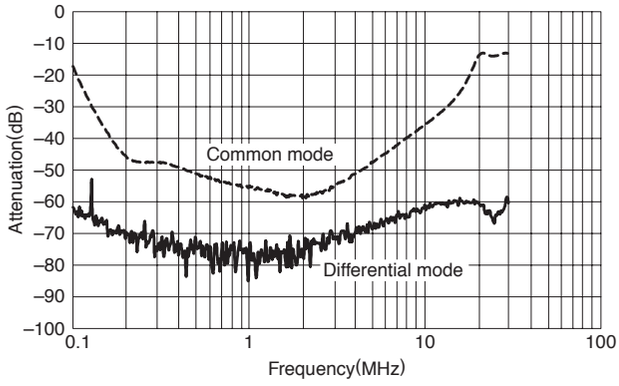
RSHN-2060



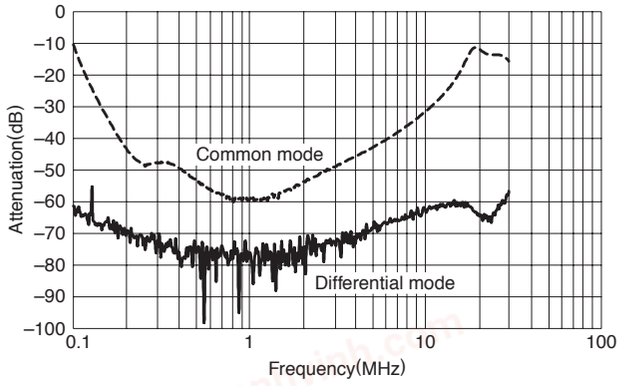
RSHN-2080



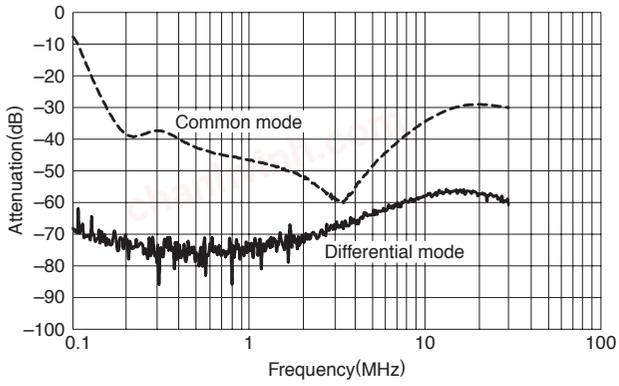
RSHN-2100



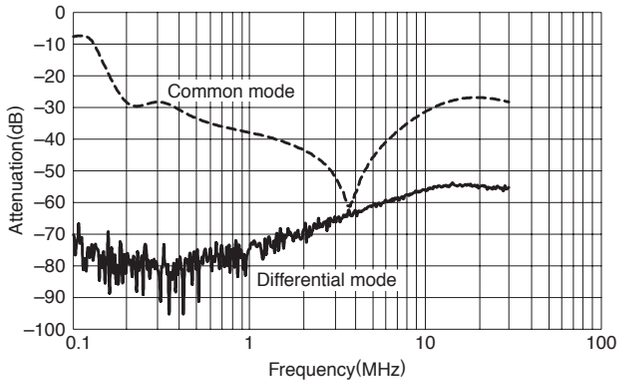
RSHN-2150



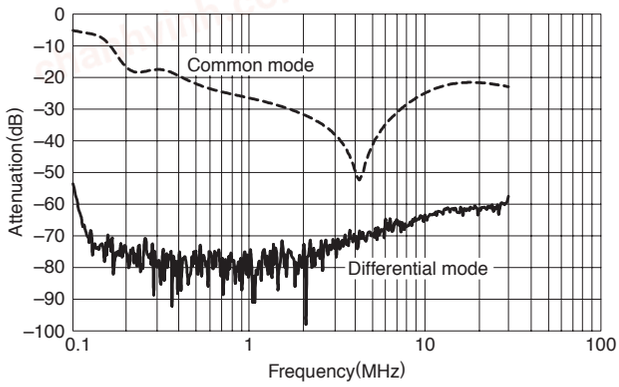
RSHN-2200



RSHN-2250

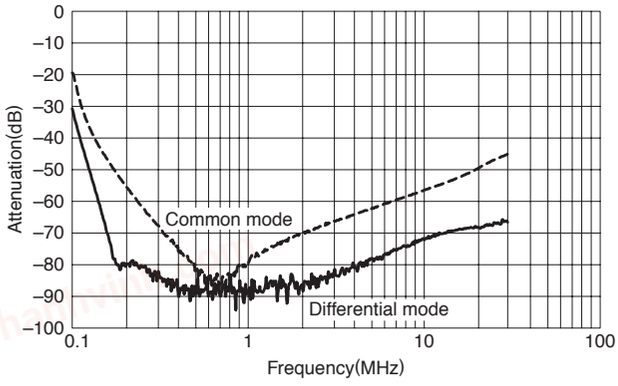


RSHN-2300

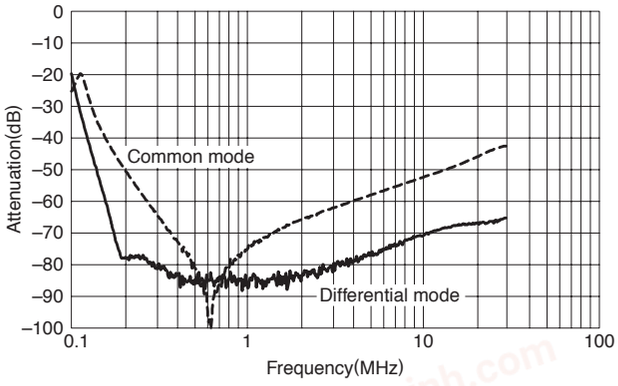


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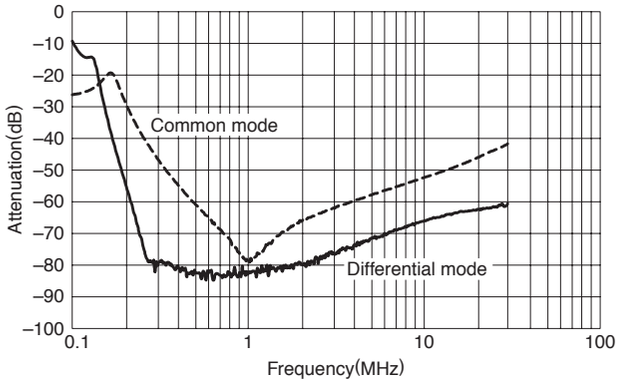
RSHN-2003L



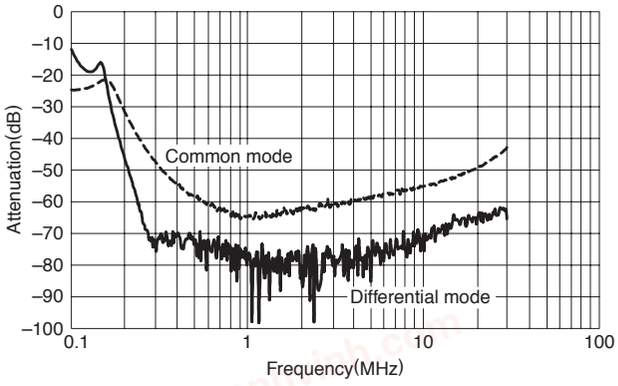
RSHN-2006L



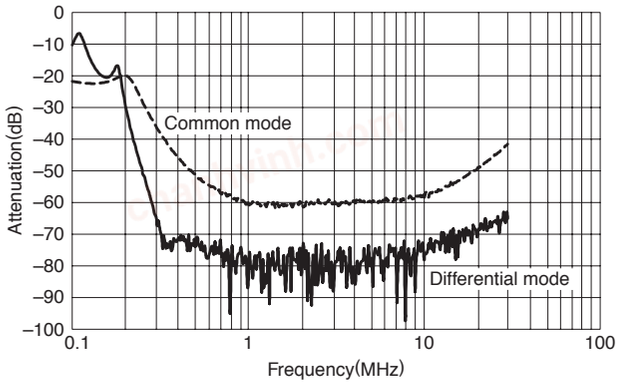
RSHN-2010L



RSHN-2016L



RSHN-2020L



RSHN-2030L

