

RSHN SERIES

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



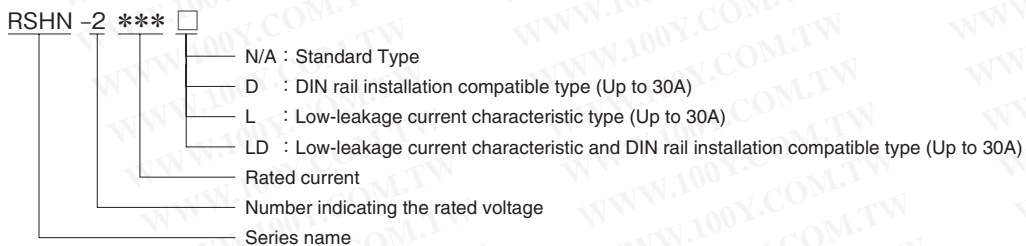
FEATURES

- 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.
- Compliant with RoHS directives.

SAFETY STANDARDS

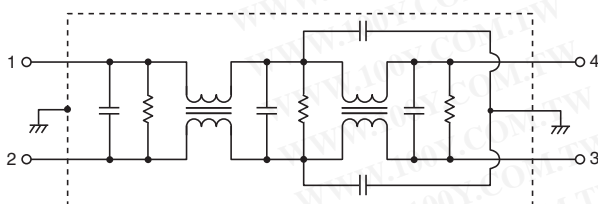
UL1283	File No. E62388 (Up to 30A)
CSA C22.2 No.8	File No. 208777 (Up to 30A)
EN60939	Licence Ref. No. SE/07115-3 (Up to 30A)

PRODUCT IDENTIFICATION

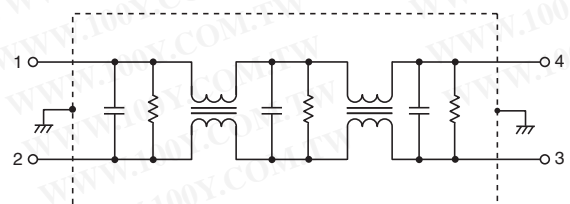


CIRCUIT DIAGRAM

RSHN-2 ***
RSHN-2 ***D



RSHN-2 ***L
RSHN-2 ***LD



• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

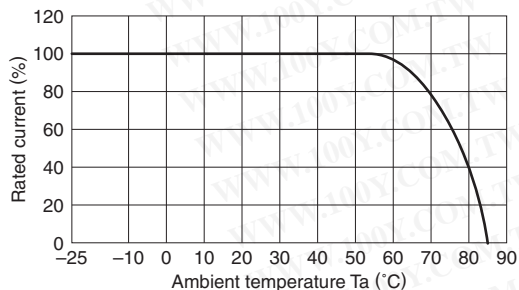
ELECTRICAL CHARACTERISTICS

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°C	55°C	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						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

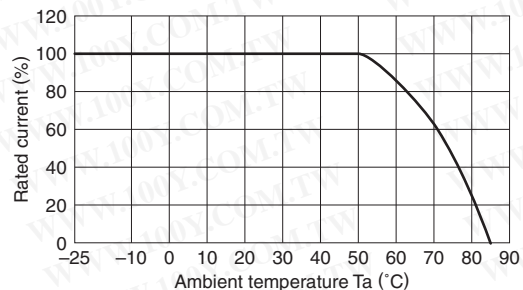
Part No.	Rated voltage (AC/DC)	Rated current (AC/DC)	Withstand voltage	Insulation resistance	Leakage current	Operating temperature range	With derating over	DC resistance (mΩ)	Attenuation frequency range (MHz)		Weight (kg)
									Common mode	Differential mode	
									at 25dB	at 25dB	
RSHN-2003L	250V	3A	AC.2500V 60s [Between line to ground]	100MΩ min. [DC.500V/ 1min]	100 μ A max. [250V/60Hz]	-25 to +85°C	55°C	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

DERATINGS

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

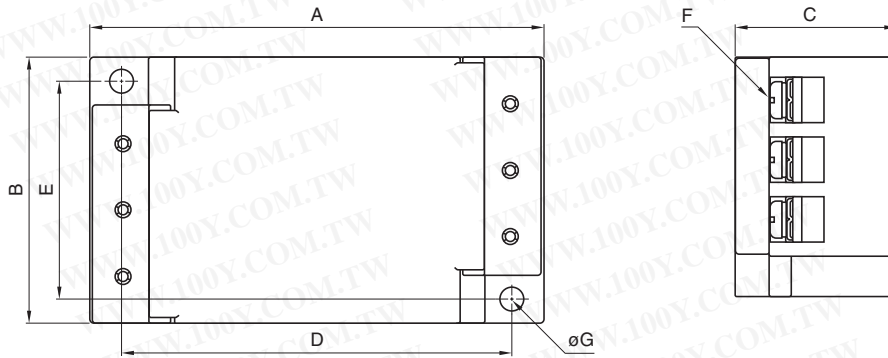


RSHN-2080/2100/2150/2200/2250/2300

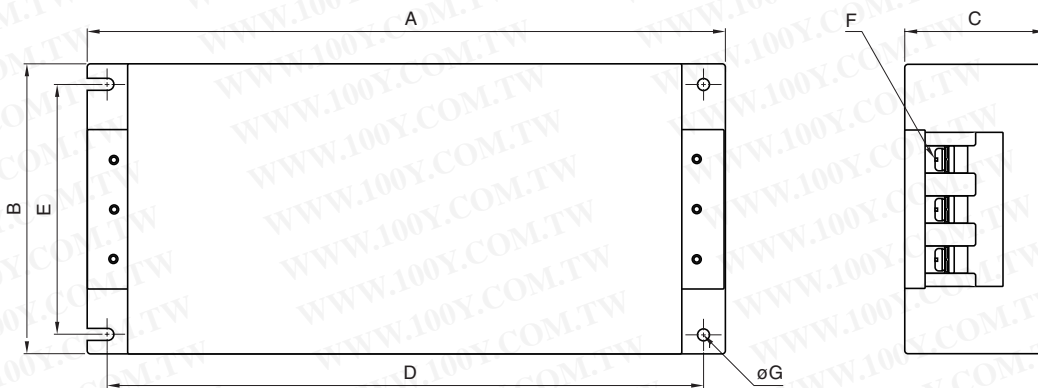


SHAPES AND DIMENSIONS

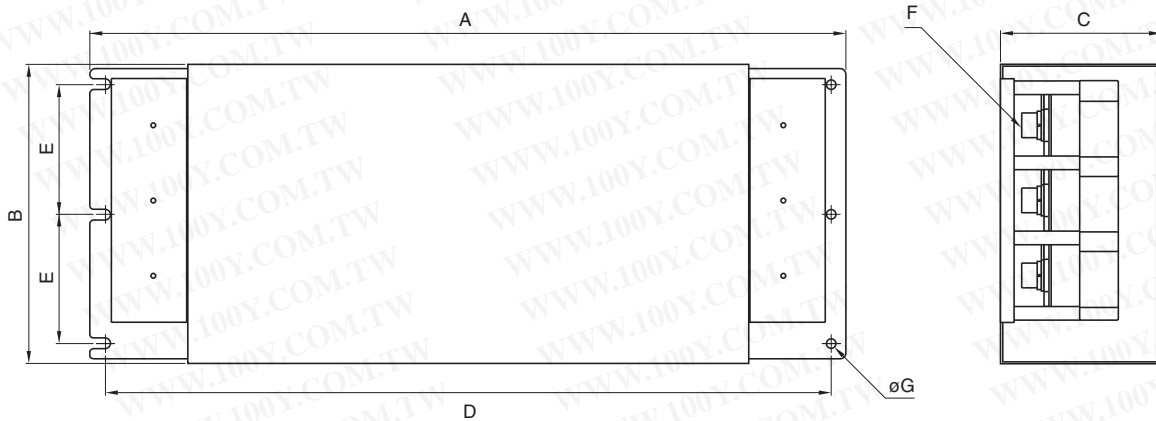
RSHN-2003/2006/2010/2016/2020/2030



RSHN-2040/2050/2060/2080/2100/2150/2200/2250/2300



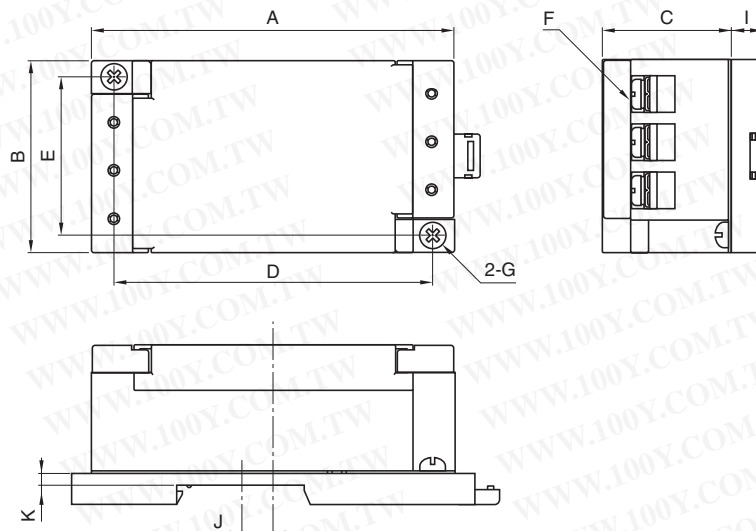
RSHN-2200/2250/2300



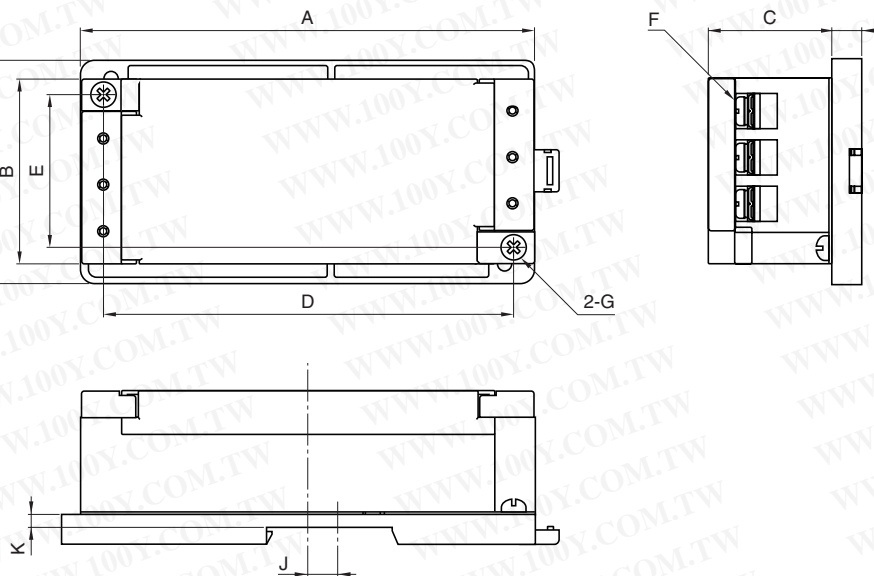
Dimensions in mm

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	4.5	1.27N · m
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								
RSHN-2200	593	195	103	573	84.5	M10	6.5	11.8N · m
RSHN-2250								
RSHN-2300								

RSHN-2003D/2006D/2010D



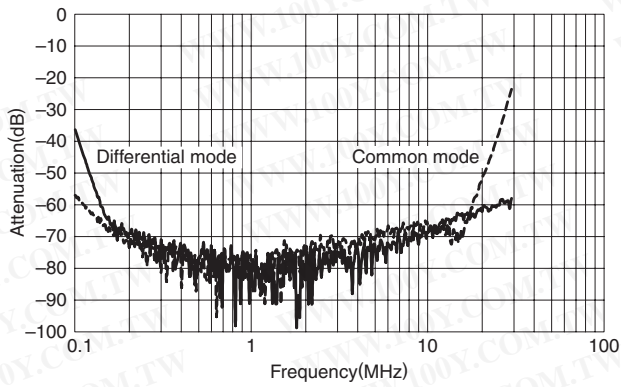
RSHN-2016D/2020D/2030D



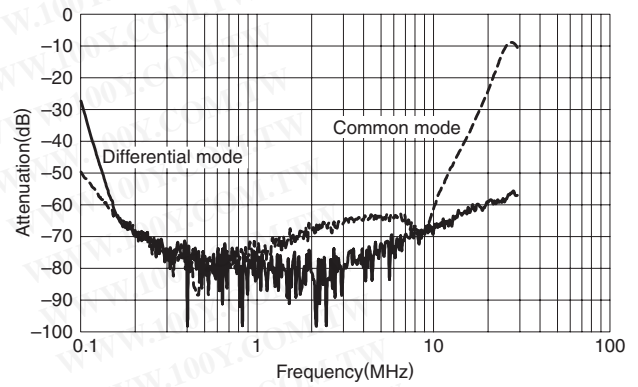
Part No.	Dimensions in mm										
	A	B	C	D	E	F	G	H	I	J	K
RSHN-2003D	98	52	35	86	43	M4	M4	-	8.4	8.5	3.5
RSHN-2006D											
RSHN-2010D											
RSHN-2016D	127	52	35	115	43	M4	M4	63	8.4	6	3.5
RSHN-2020D											
RSHN-2030D											

ATTENUATION vs. FREQUENCY CHARACTERISTICS

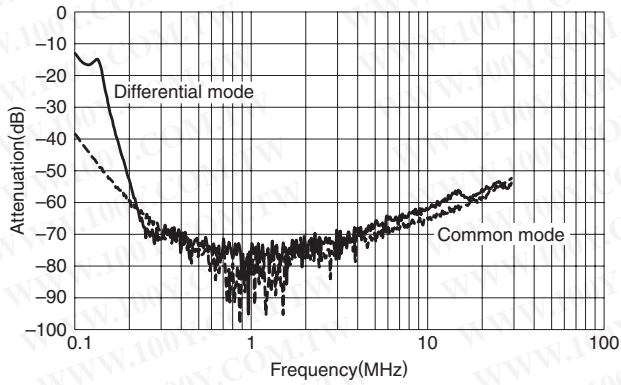
RSHN-2003



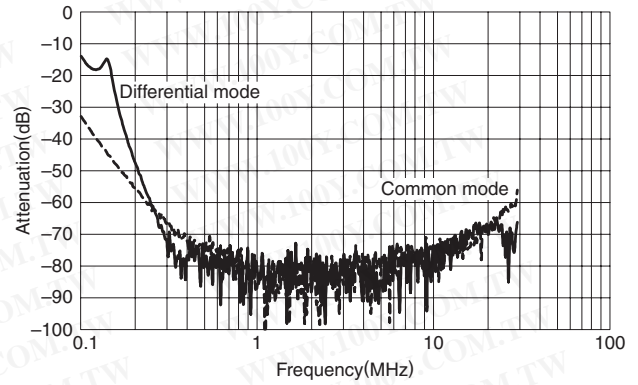
RSHN-2006



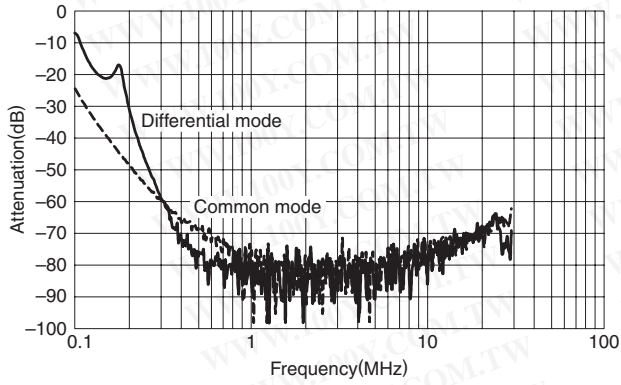
RSHN-2010



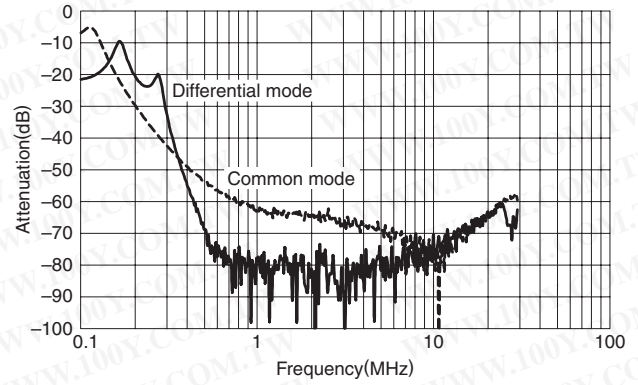
RSHN-2016



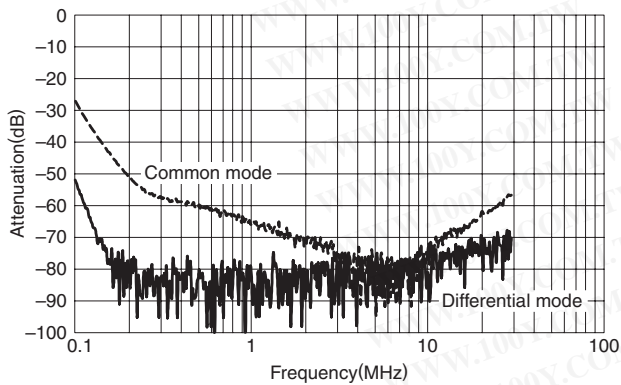
RSHN-2020



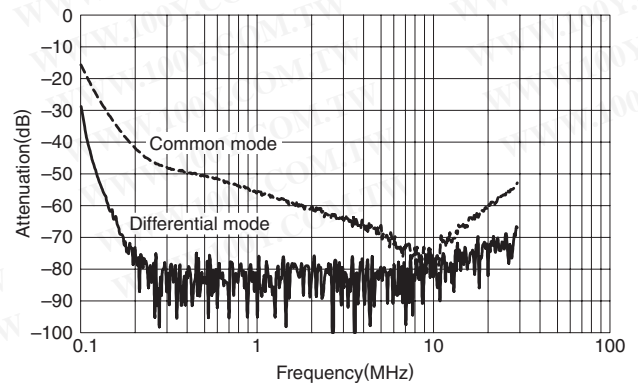
RSHN-2030



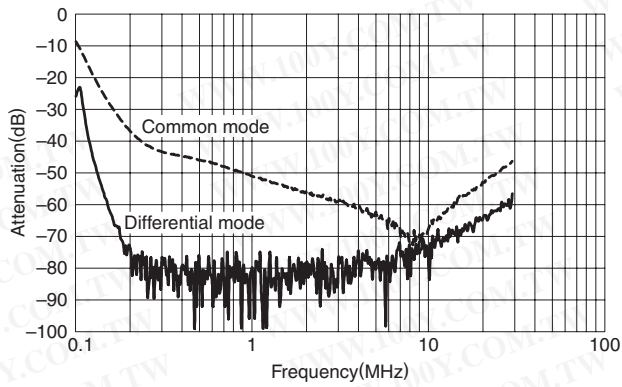
RSHN-2040



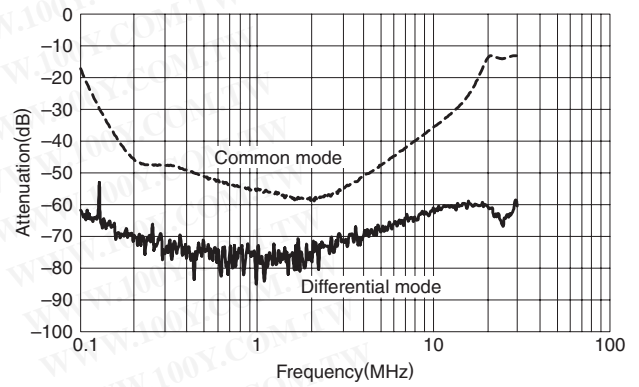
RSHN-2050



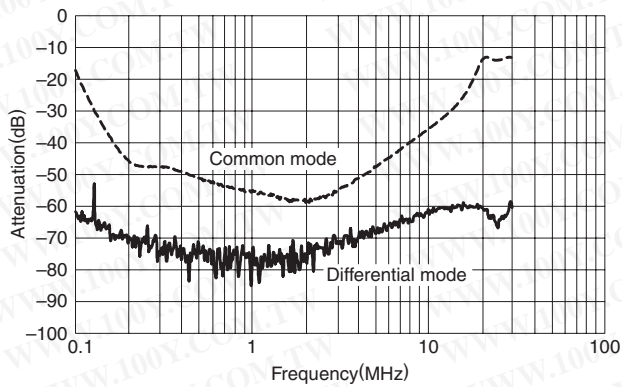
RSHN-2060



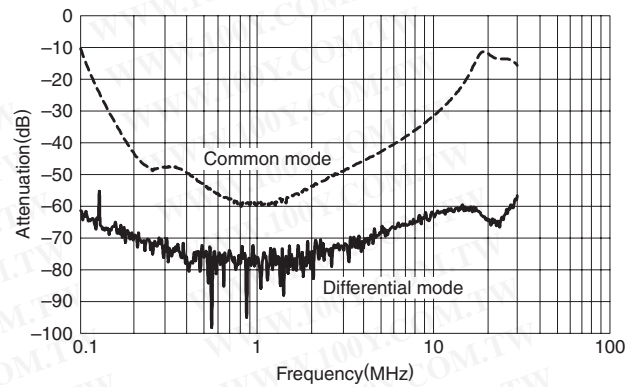
RSHN-2080



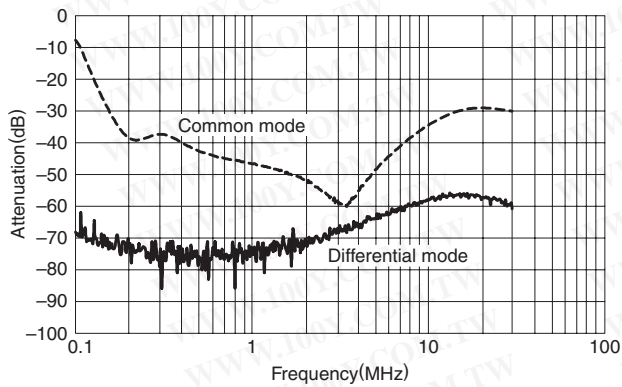
RSHN-2100



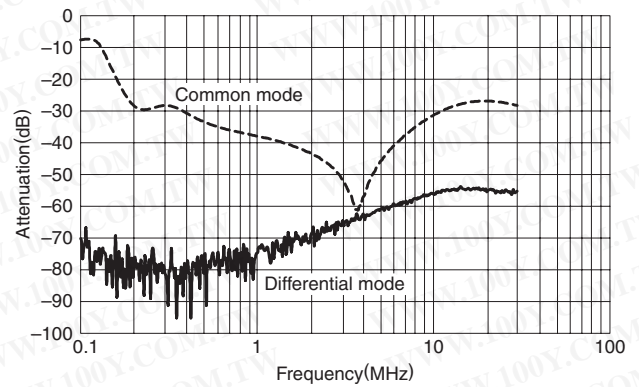
RSHN-2150



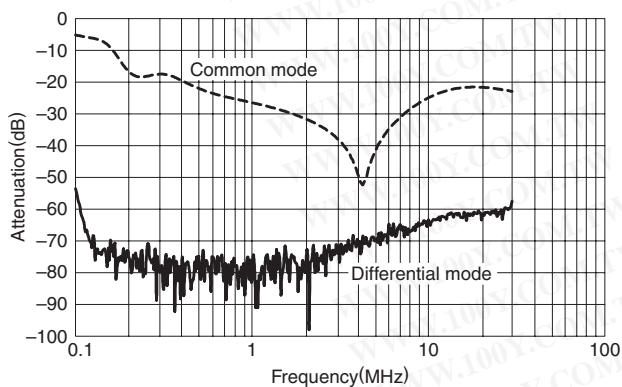
RSHN-2200



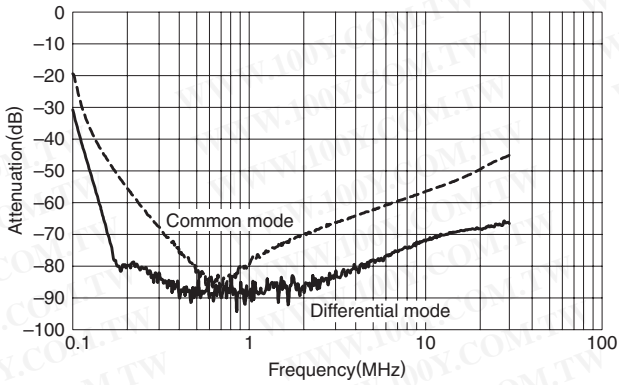
RSHN-2250



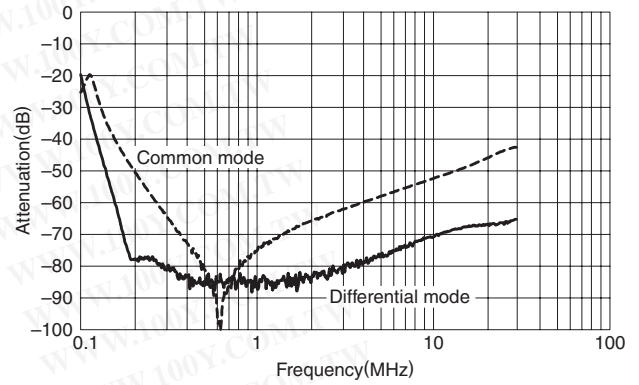
RSHN-2300



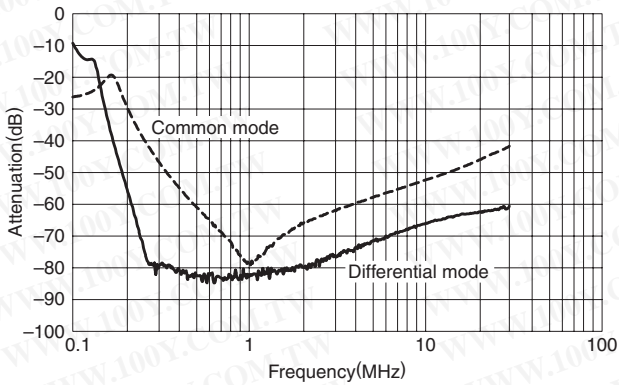
RSHN-2003L



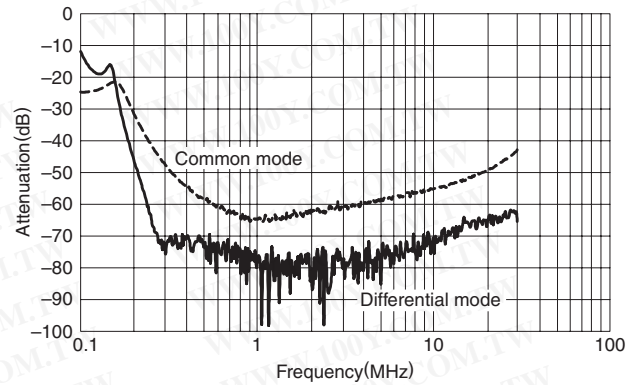
RSHN-2006L



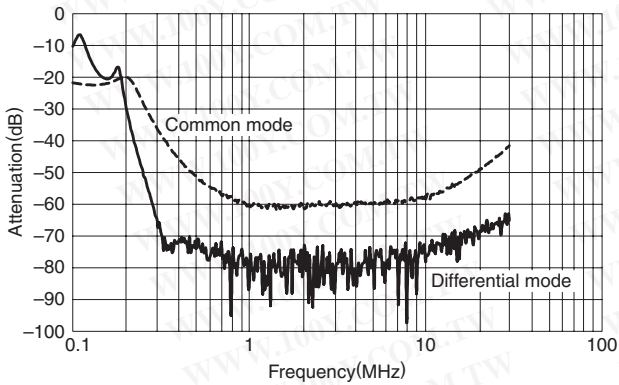
RSHN-2010L



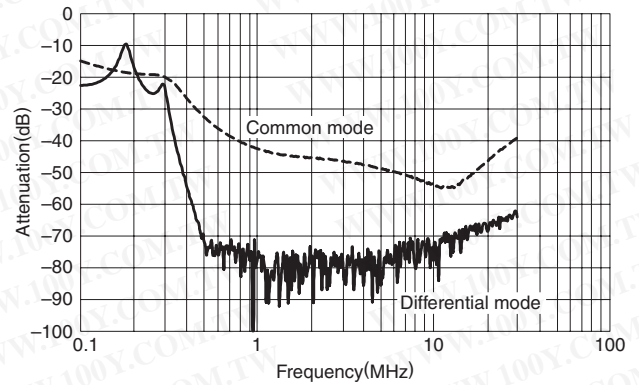
RSHN-2016L



RSHN-2020L



RSHN-2030L



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