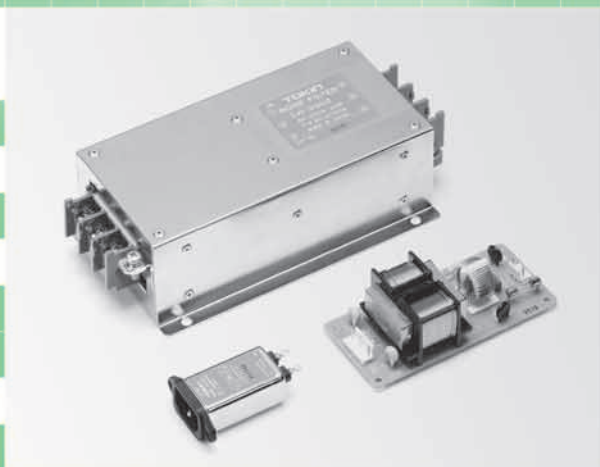


Noise Filters

Noise
Filters



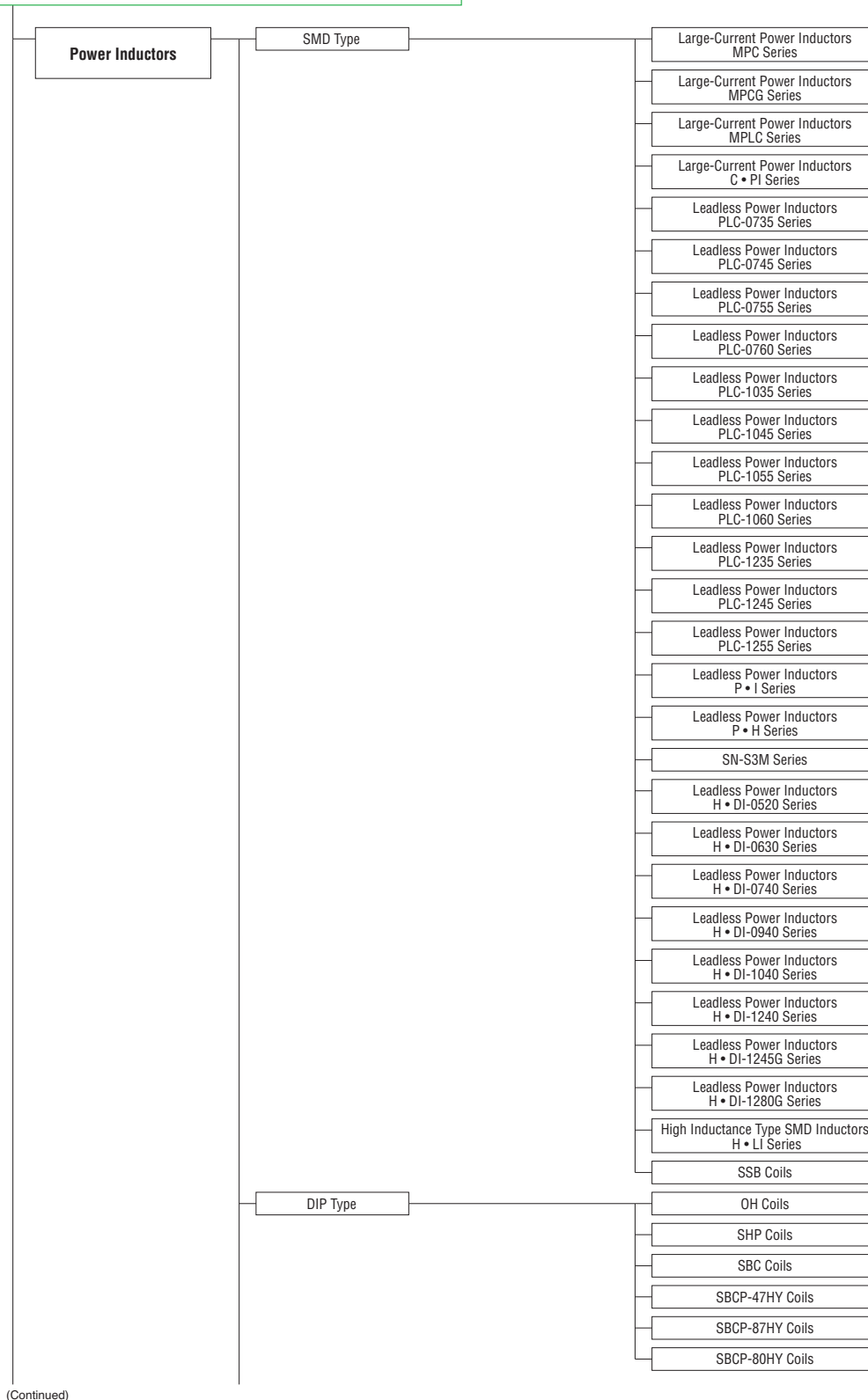
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Contents

Classification of NEC TOKIN's EMI suppression parts	3
Casing Type	
New Products	
LF-SF Series Three-Phase Type	8
GT-SF Series Single-Phase Type	9
Metal box	
LF Series Small Current Type	10
LF Series Small Current Type with Screw Terminal	11
LF Series Screw Terminal Type	13
LF Series Large Current Type	15
LF Series Three-Phase Type	16
LF Series For Inverters	18
LF Series Compliance with CE Marking (LF-3000 Series) ...	21
LH Series Low-Frequency Inverters	23
LH Series Compliance with CE Marking (LH-4 Series)	25
HFP Series	26
GT Series Screw Terminal	28
GT Series Faston Terminal	30
GT Series For VCCI	32
GF Series	33
Metal cylinder	
VU Series	34
VC Series	36
VG-FPZ Series for inverter installed home appliances' surge control ..	37
RG Series	38
Plastic box	
MR Series	40
MA Series	42
Inlet Type	
GL Series C Type	43
GL Series F, FV, FVP Type	45
GL Series H Type	47
GL Series M Type	49
 TÜV Rheinland Japan Ltd. Certification Numbers	 50



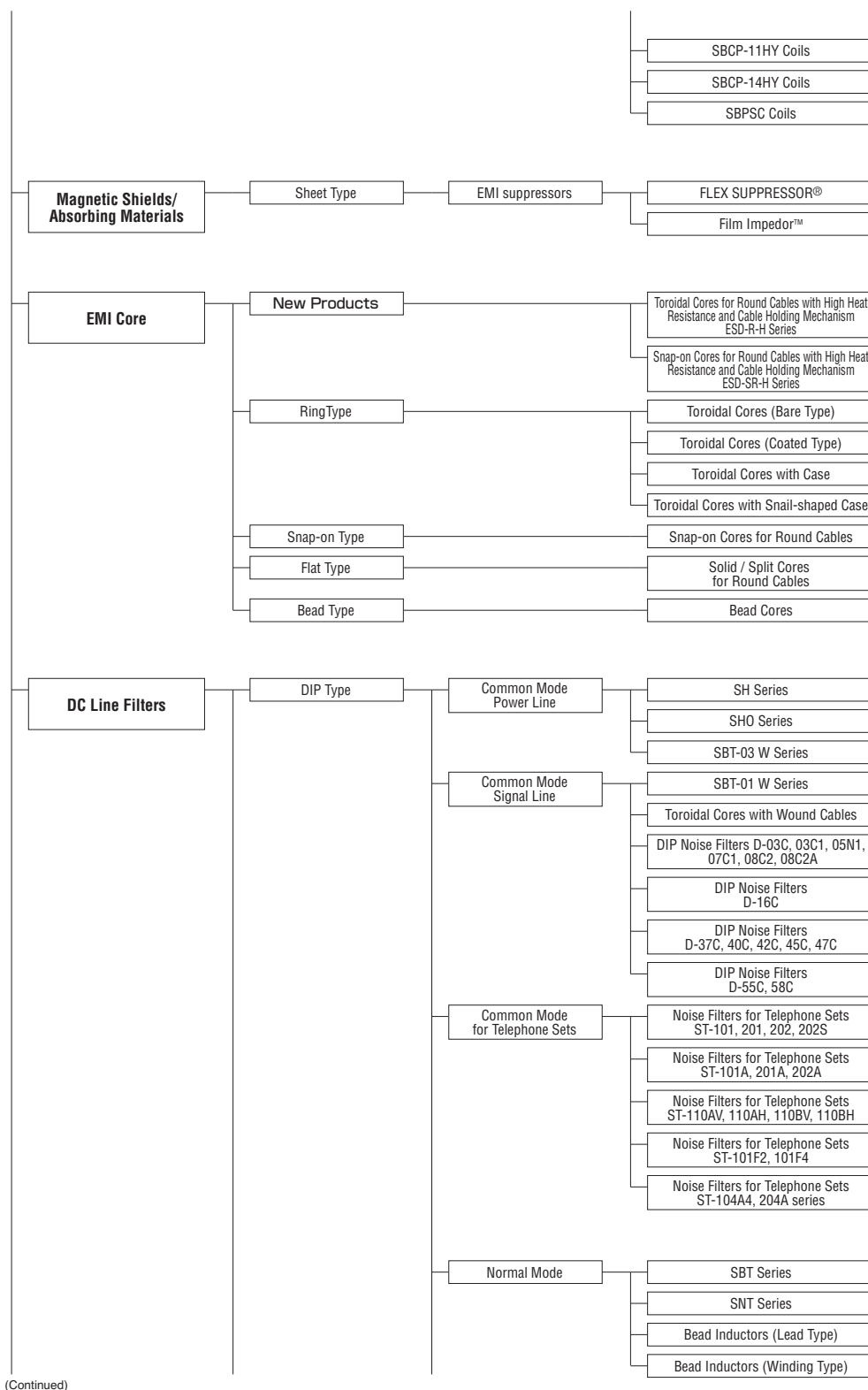
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



(Continued)



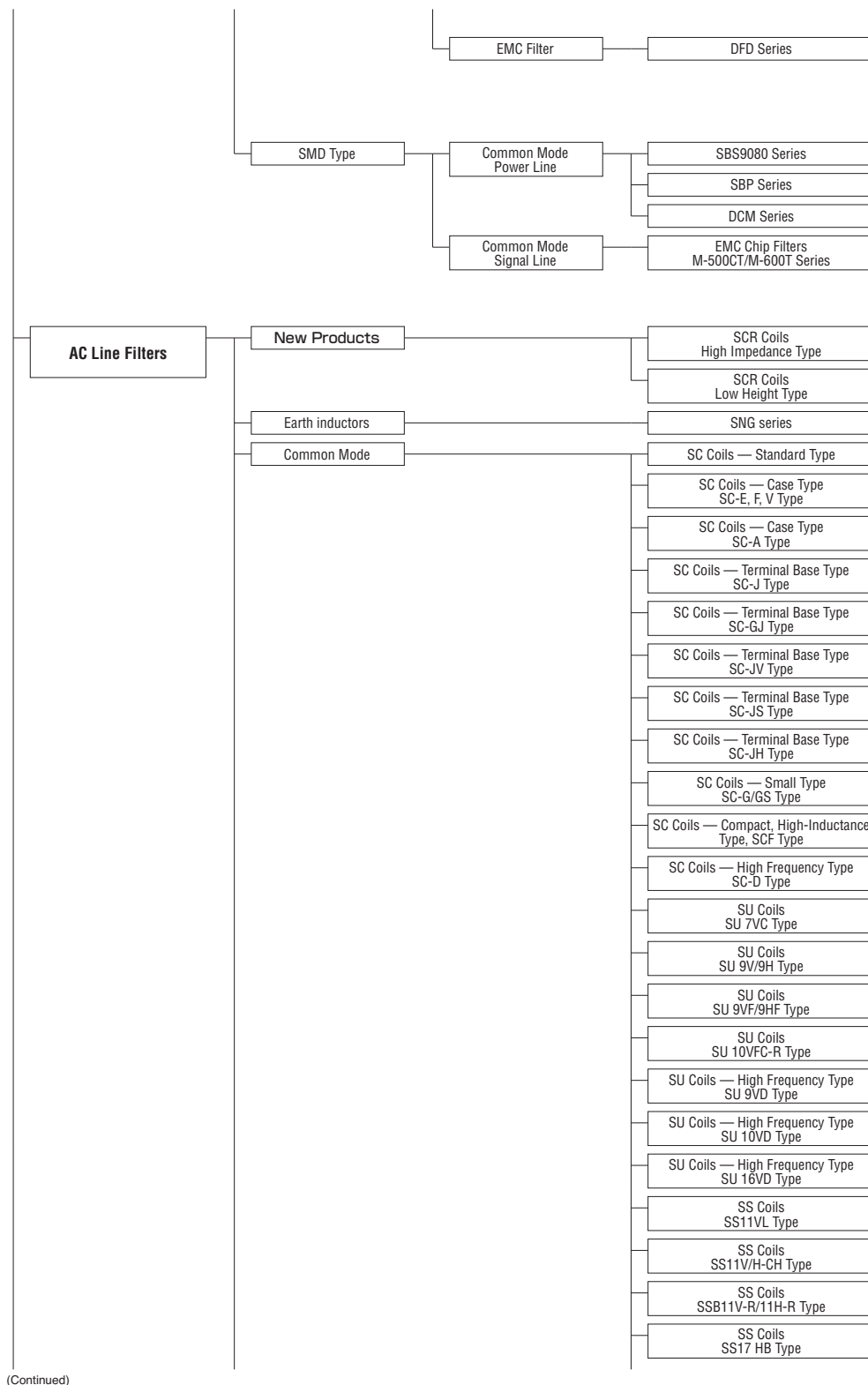
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



(Continued)



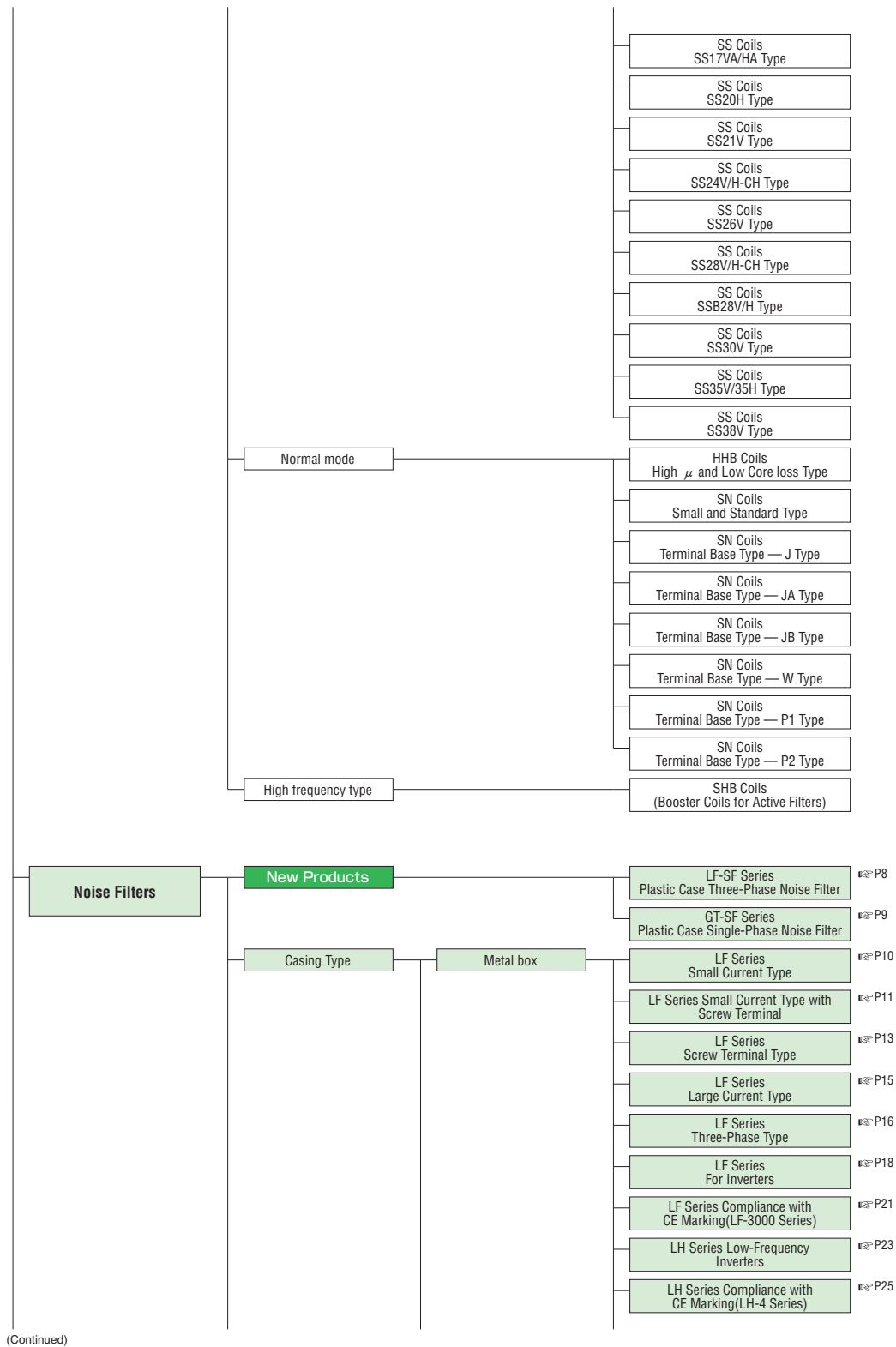
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



(Continued)



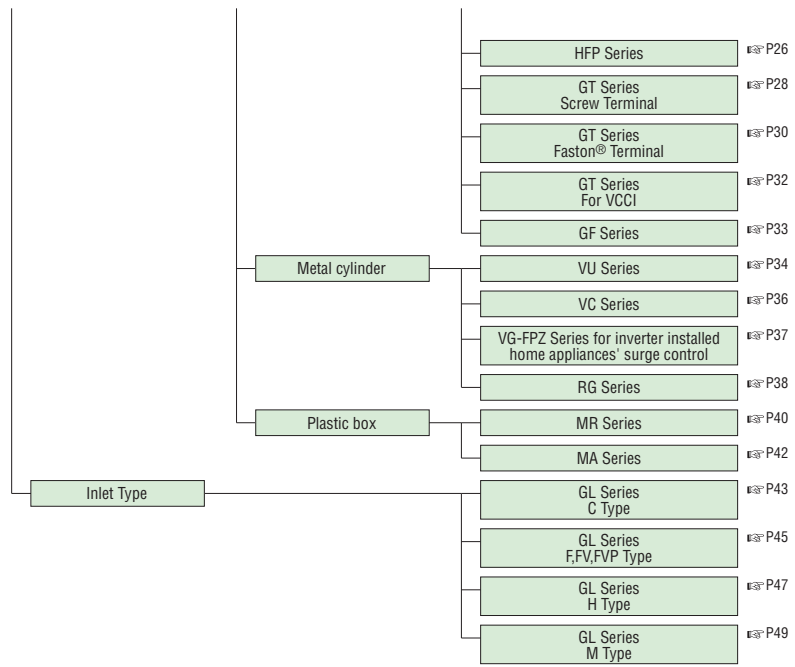
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



(Continued)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Plastic Case Three-Phase Noise Filter

LF-SF Series 
[RoHS Compliant]

**NEW
PRODUCT**



Features

- Plastic shell of the product eliminates resin filling (weight reduction)
- DIN rail installation types available
- Featuring mechanism of self-jump-up to prevent loss of screw (easy to install)
- Safety cover integrating contact terminal

Applications

- Industrial equipment, machine tools

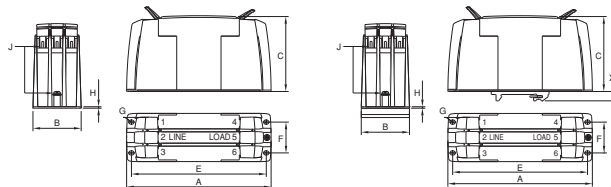
Model ※1	Rated voltage AC/DC(V)	Rated current AC/DC(A)	Withstanding voltage 2 sec., line to ground AC(V)	Insulation resistance 500VDC 1 min., line to ground (MΩ)min.	Leakage current 380V/50Hz, (mA)max.	Self- temperature rise (K)max.	Operating temperature range (°C)	Certified standard	Weight (g) ※2
LF-3100SF-10/20	520	10	3000	6000	0.48	50	-25~+100	UL, CSA, ENEC14	520 / 540
LF-3200SF-10/20	520	20	3000	6000	0.48	50	-25~+100	UL, CSA, ENEC14	520 / 540
LF-3300SF-10/20	520	30	3000	6000	0.48	50	-25~+100	UL, CSA, ENEC14	520 / 540
LF-3500SF-10/20	520	50	3000	6000	0.48	50	-25~+100	UL, CSA, ENEC14	950 / 960

※1: Model names ending with "10" indicate normal types, and those ending with "20" indicate DIN rail types. ※2: Normal type / DIN rail type (DIN rails not included in the products)

Shape and Dimensions

● LF-3**0SF-10(Normal type)

● LF-3**0SF-20(DIN rail type)

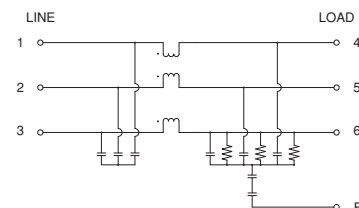


*Recommended torque (N·m) max. ◆Line terminal (M4: 1.20, M5: 2.20) ◆Earth terminal (M4: 1.20, M5: 2.20)

Model	A	B	C	E	F	G	H	J	X
Normal type10,20,30A	150	50	78	140	32	4.3x5.5	1.5	M4	
Normal type 50A	177	65	84	162	44	5.3x6.5	1.5	M5	
DIN rail type10,20,30A	150	50	78	140	32	4.3x5.5	1.5	M4	9.7
DIN rail type 50A	177	65	84	162	44	5.3x6.5	1.5	M5	9.7

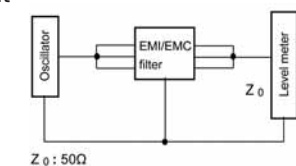
[mm]

Circuit Diagram

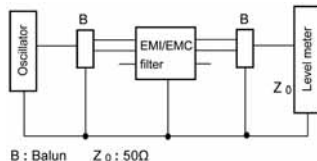


Measuring Circuit

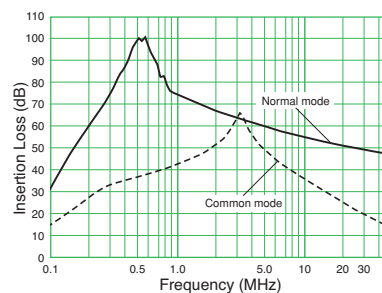
● Common mode



● Normal mode



Attenuation(Static Characteristics) Representative example: 50A



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Plastic Case Single-Phase Noise Filter

GT-SF Series

[RoHS Compliant]



NEW
PRODUCT



Features

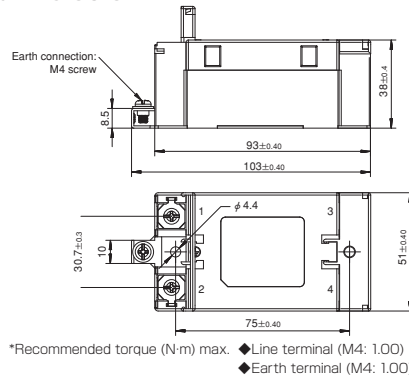
- Plastic shell of the product eliminates resin filling (weight reduction)
- DIN rail installation types available
- Featuring mechanism of self-jump-up to prevent loss of screw (easy to install)
- Safety cover integrating contact terminal

Applications

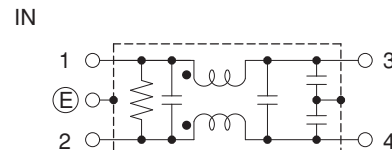
- Industrial equipment, electronic devices

Model ※1	Rated voltage AC/DC(V)	Rated current AC/DC(A)	Withstanding voltage 2 sec., line to ground AC(V)	Insulation resistance 500VDC 1 min., line to ground (MΩ)min.	Leakage current 250V/50Hz, (mA)max.	Self-temperature rise (K)max.	Operating temperature range (°C)	Certified standard	Weight (g) ※2
GT-2060SF-10	250	6	2500	6000	0.56	45	-25~+100	cCSAus,ENEC14	210
GT-2100SF-10	250	10	2500	6000	0.56	45	-25~+100	cCSAus,ENEC14	220
GT-2160SF-10	250	16	2500	6000	0.56	45	-25~+100	cCSAus,ENEC14	220
GT-2200SF-10	250	20	2500	6000	0.56	45	-25~+100	cCSAus,ENEC14	220

Shape and Dimensions

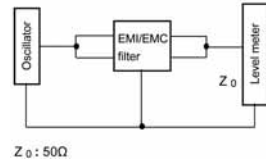


Circuit Diagram

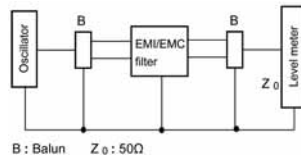


Measuring Circuit

- Common mode

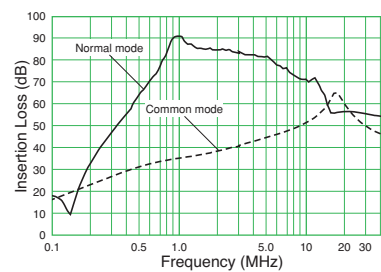


- Normal mode



Attenuation(Static Characteristics)

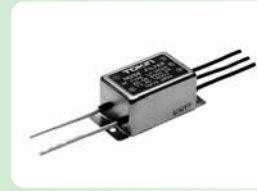
Representative example: 20A



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series Small Current Type

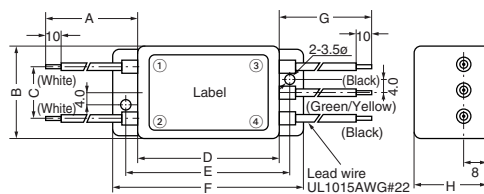
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
LF-202A	250	2	1500	300	1	1.5	30	-20 to +55		95
LF-202U-1	250	2	1500	300	1	1.5	30	-20 to +55	UL	95

Shape and Dimensions

●LF-202A, LF-202U-1

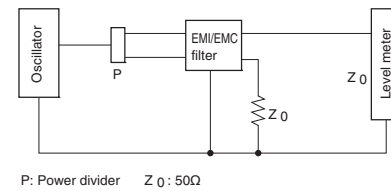


Model	A	B	C	D	E	F	G	H
LF-202A	100	32	17	48	56	64	100	25
LF-202U-1	200	32	17	48	56	64	200	25

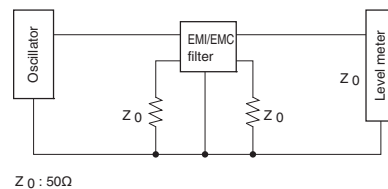
[mm]

Measuring Circuit

●Common mode

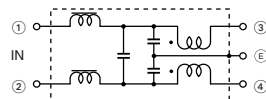


●Normal mode

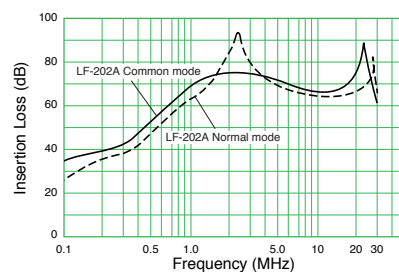


Circuit Diagram

●LF-200 Series



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series

Small Current Type with Screw Terminal

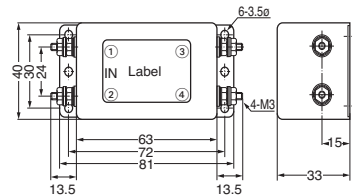
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
LF-205A	250	5	1500	300	1	1.5	30	-20 to +55		170
LF-205P	250	5	2000	300	1	1.5	30	-20 to +55		170
LF-210	250	10	1500	300	1	1.5	30	-20 to +55	UL	590
LF-215	250	15	1500	300	1	1.5	30	-20 to +55		620
LF-215U	250	15	1500	300	1	1.5	30	-20 to +55	UL	620
LF-210N	250	10	1500	300	1	1.5	30	-20 to +55		650
LF-210P	250	10	2000	300	1	1.5	30	-20 to +55		590
LF-215N	250	15	1500	300	1	1.5	30	-20 to +55		650
LF-215P	250	15	2000	300	1	1.5	30	-20 to +55		620

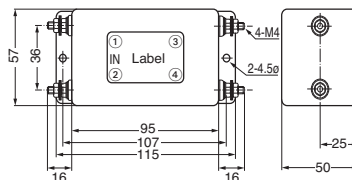
Shape and Dimensions

●LF-205A, LF-205P



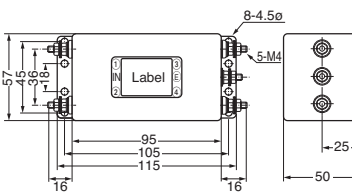
*Recommended torque (N·m) max. ◆Line terminal (M3: 0.49)

●LF-215U



*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78)

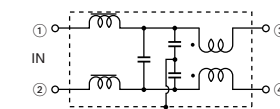
●LF-210, 210N, 210P, LF-215, 215N, 215P

*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78)
◆Earth terminal (M4: 1.18)

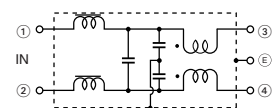
[mm]

Circuit Diagram

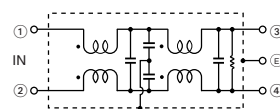
●LF-205A, 205P, 215U



●LF-210, 215, 210P, 215P



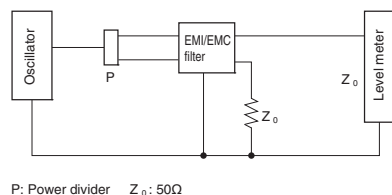
●LF-210N, 215N



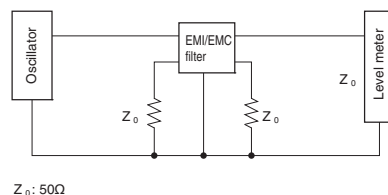
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

● Common mode

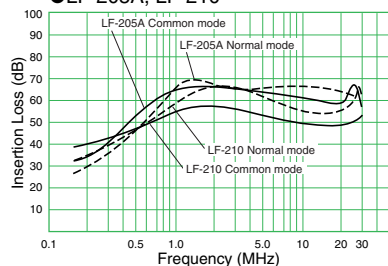


● Normal mode

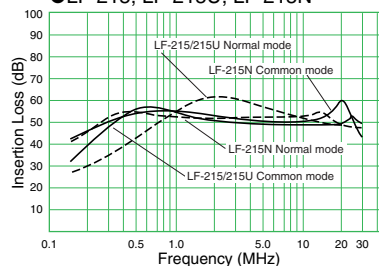


Attenuation (Static Characteristics)

● LF-205A, LF-210



● LF-215, LF-215U, LF-215N



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series

Screw Terminal Type

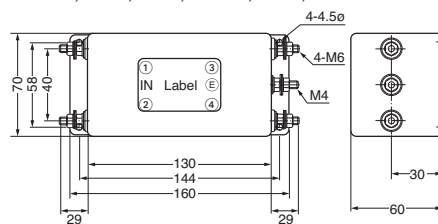
[RoHS Compliant]



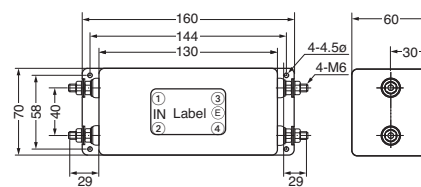
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (kg)
LF-220	250	20	1500	300	1	1.5	30	-20 to +55		1.2
LF-230	250	30	1500	300	1	1.5	30	-20 to +55		1.2
LF-230FU	250	30	1500	300	1	1.5	30	-20 to +55	UL	1.2
LF-220N	250	20	1500	300	1	1.5	30	-20 to +55		1.2
LF-220P	250	20	2000	300	1	1.5	30	-20 to +55		1.2
LF-230N	250	30	1500	300	1	1.5	30	-20 to +55		1.2
LF-230P	250	30	2000	300	1	1.5	30	-20 to +55		1.2

Shape and Dimensions

●LF-220, 220N, 220P, LF-230, 230N, 230P



●LF-230FU

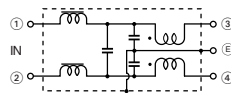


*Recommended torque (N·m) max. ◆Line terminal (M6: 1.18) ◆Earth terminal (M4: 1.18)

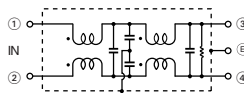
[mm]

Circuit Diagram

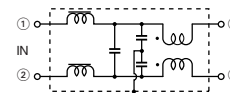
●LF-220, 220P, 230, 230P



●LF-220N, 230N Series

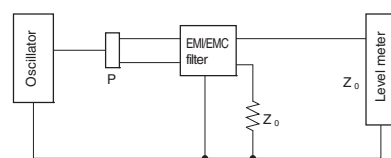


●LF-230FU



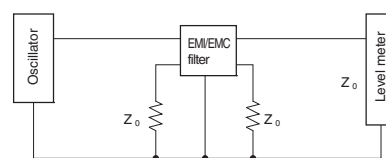
Measuring Circuit

●Common mode



P: Power divider Z_0 : 50Ω

●Normal mode

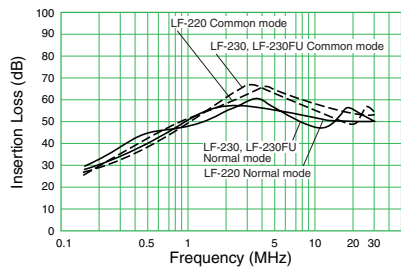


Z_0 : 50Ω



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series

Large Current Type

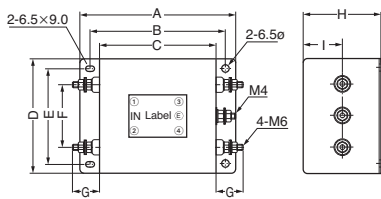
[RoHS Compliant]



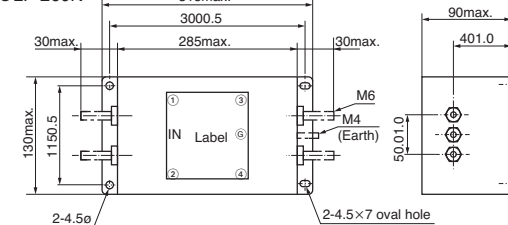
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (kg)
LF-240	250	40	1500	300	1	1.5	40	-20 to +45		3.2
LF-240P	250	40	2000	300	1	1.5	40	-20 to +45		3.2
LF-250	250	50	1500	300	1	1.5	40	-20 to +45		4.0
LF-250P	250	50	2000	300	1	1.5	40	-20 to +45		4.0
LF-260N	250	60	1500	300	1	1.5	30	-20 to +55		6.5
LF-240U	250	40	1500	300	1	1.5	40	-20 to +45	UL	3.2

Shape and Dimensions

● LF-240/240P/240U, LF-250/250P



● LF-260N



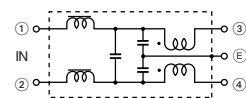
*Recommended torque (N·m) max. ◆Line terminal (M6: 1.18) ◆Earth terminal (M4: 1.18)

Model	A	B	C	D	E	F	G	H	I
LF-240/240P	210	190	170	120	100	60	29	75	40
LF-240U	240	220	200	90	70	40	30	80	40
LF-250/250P	240	220	200	90	70	40	30	80	40
LF-260N	315	300	285	130	115	50	30	90	50

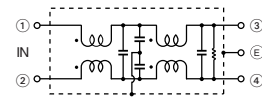
[mm]

Circuit Diagram

● LF-240, 240P, 240U, 250, 250P

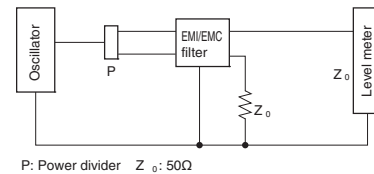


● LF-260N Series



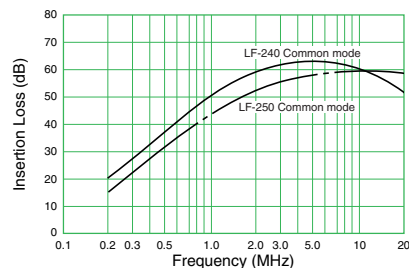
Measuring Circuit

Common mode



P: Power divider Z₀: 50Ω

Attenuation (Static Characteristics)



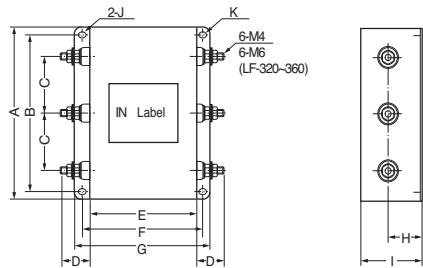
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series **Three-Phase Type** **[RoHS Compliant]**



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (kg)
LF-305	250	5	1500	300	1	1.5	30	-20 to +55		0.65
LF-310	250	10	1500	300	1	1.5	30	-20 to +55	UL	1.9
LF-315	250	15	1500	300	1	1.5	30	-20 to +55		1.9
LF-320	250	20	1500	300	1	1.5	30	-20 to +55		2.3
LF-320U	250	20	1500	300	1	1.5	30	-20 to +55	UL, CSA	2.4
LF-330	250	30	1500	300	1	1.5	30	-20 to +55	UL	2.4
LF-340	250	40	1500	300	1	1.5	40	-20 to +45	UL	5.3
LF-350	250	50	1500	300	1	1.5	40	-20 to +45	UL	5.3
LF-360	250	60	1500	300	1	1.5	40	-20 to +45		8.0
LF-305A	450	5	2000	300	2	1.5	40	-20 to +45		0.65
LF-310A	450	10	2000	300	2	1.5	40	-20 to +45		1.9
LF-315A	450	15	2000	300	2	1.5	40	-20 to +45		1.9
LF-320A	450	20	2000	300	2	1.5	40	-20 to +45	UL	2.3
LF-330A	450	30	2000	300	2	1.5	40	-20 to +45		2.4
LF-340A	450	40	2000	300	2	1.5	40	-20 to +45		5.3
LF-350A	450	50	2000	300	2	1.5	40	-20 to +45		5.3

Shape and Dimensions

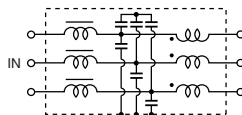


*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78, M6: 1.18)

Model	A	B	C	D	E	F	G	H	I	J	K
LF-305, 305A	120	110	40	25	80	95	110	25	45	4.5×7	4.5ø
LF-310, 310A	180	170	60	25	120	135	150	35	65	4.5×7	4.5ø
LF-315, 315A	180	170	60	25	120	135	150	35	65	4.5×7	4.5ø
LF-320, 320A	180	170	60	29	120	135	150	35	65	4.5×7	4.5ø
LF-320U	180	170	60	29	120	135	150	35	65	4.5×7	4.5ø
LF-330, 330A	180	170	60	29	120	135	150	35	65	4.5×7	4.5ø
LF-340, 340A	180	160	50	30	200	220	240	40	80	6.5×9	6.5ø
LF-350, 350A	180	160	50	30	200	220	240	40	80	6.5×9	6.5ø
LF-360	200	180	60	30	300	320	340	50	100	6.5×9	6.5ø

[mm]

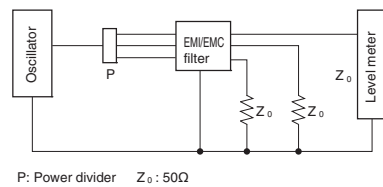
Circuit Diagram



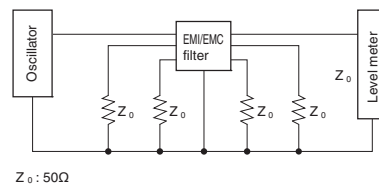
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

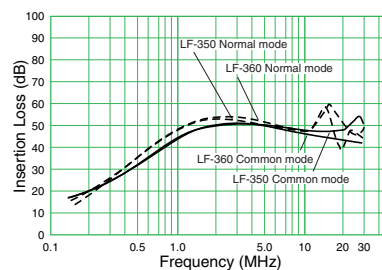
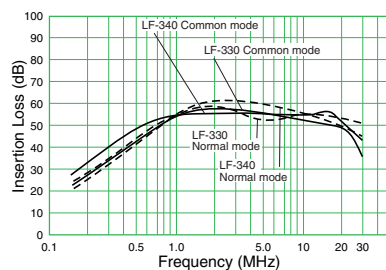
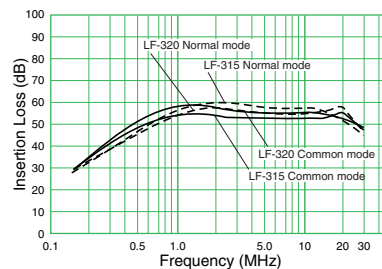
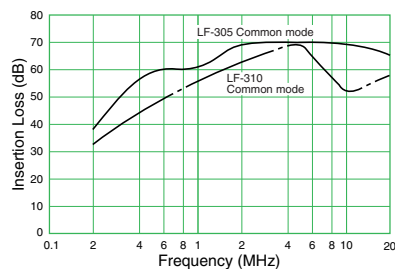
● Common mode



● Normal mode



Attenuation (Static Characteristics)



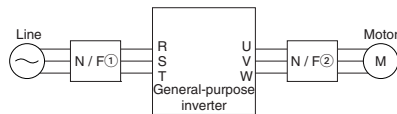
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series For Inverters [RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Operating temperature range (°C)	Certified standard	Installation position
LF-30S	250	5	1500	300	1	-20 to +55		① (input side)
LF-310	250	10	1500	300	1	-20 to +55	UL	① (input side)
LF-315	250	15	1500	300	1	-20 to +55		① (input side)
LF-320	250	20	1500	300	1	-20 to +55		① (input side)
LF-330	250	30	1500	300	1	-20 to +55	UL	① (input side)
LF-340	250	40	1500	300	1	-20 to +45	UL	① (input side)
LF-350	250	50	1500	300	1	-20 to +45	UL	① (input side)
LF-360	250	60	1500	300	1	-20 to +45		① (input side)
LF-305G	250	5	1500	300	1	-25 to +55		① (input side)
LF-310G	250	10	1500	300	1	-25 to +55		① (input side)
LF-320G	250	20	1500	300	1	-25 to +55		① (input side)
LF-315K	250	15	2000	300	5	-25 to +55		① (input side)
LF-325K	250	25	2000	300	5	-25 to +55		① (input side)
LF-335K	250	35	2000	300	5	-25 to +55		① (input side)
LF-380K	250	80	2000	300	5	-25 to +55		① (input side)
LF-314K4	506	14	2500	300	10 (500V, 60Hz)	-25 to +55		① (input side)
LF-330K4	506	30	2500	300	10 (500V, 60Hz)	-25 to +55		① (input side)
LF-355K4	506	55	2500	300	10 (500V, 60Hz)	-25 to +55		① (input side)
LF-380K4	506	80	2500	300	10 (500V, 60Hz)	-25 to +55		① (input side)
LF-310KA	250	10	2000	300	—	-25 to +55		② (output side)
LF-320KA	250	20	2000	300	—	-25 to +55		② (output side)
LF-350KA	250	50	2000	300	—	-25 to +55		② (output side)
LF-310KB	440	10	2500	300	—	-25 to +55		② (output side)
LF-320KB	440	20	2500	300	—	-25 to +55		② (output side)
LF-335KB	440	35	2500	300	—	-25 to +55		② (output side)
LF-345KB	440	45	2500	300	—	-25 to +55		② (output side)
LF-375KB	440	75	2500	300	—	-25 to +55		② (output side)
LF-3110KB	440	110	2500	300	—	-25 to +55		② (output side)

Installation Diagram



Only LF-KA and KB can be used in N/F②.

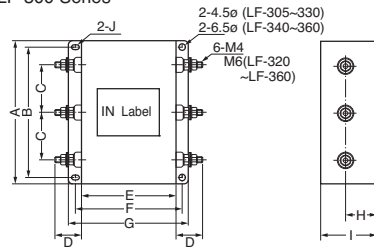
- N/F ① LF-K Series (conforms to CISPR Pub 14)
LF Series (conforms to FCC P15-J and JTTC)
LF-G Series (conforms to FCC P15-J and JTTC)
- N/F ② LF-KA Series (200V line)
LF-KB Series (400V line)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

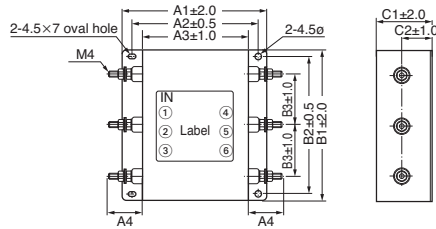
Shape and Dimensions

●LF-300 Series



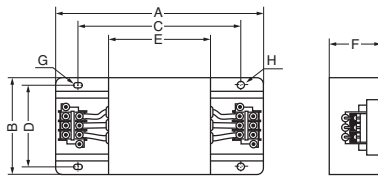
Model	A	B	C	D	E	F	G	H	I	J
LF-305	120	110	40	25	80	95	110	25	45	4.5×7
LF-310	180	170	60	25	120	135	150	35	65	4.5×7
LF-315	180	170	60	25	120	135	150	35	65	4.5×7
LF-320	180	170	60	29	120	135	150	35	65	4.5×7
LF-330	180	170	60	29	120	135	150	35	65	4.5×7
LF-340	180	160	50	30	200	220	240	40	80	6.5×9
LF-350	180	160	50	35	200	220	240	40	80	6.5×9
LF-360	200	180	60	30	300	320	340	40	100	6.5×9

●LF-G Series



Model	A1	A2	A3	A4	B1	B2	B3	C1	C2
LF-305G	110	95	80	25	120	110	40	45	25
LF-310G	150	135	120	25	120	110	40	65	35
LF-320G	150	135	120	25	120	110	40	65	35

●LF-K Series



										[mm]
	Model	Terminal board	A	B	C	D	E	F	G	H
200V line	LF-315K	TE-K5.5 M4	260	180	180	160	120	65	7×4.5φ	4.5φ
	LF-325K	TE-K22 M6	340	180	260	160	200	80	9×6.5φ	6.5φ
	LF-335K	TE-K22 M6	440	200	360	180	300	100	9×6.5φ	6.5φ
	LF-380K	TE-K22 M6	670	400	560	380	500	170	9×6.5φ	6.5φ
400V line	LF-314K4	TE-K5.5 M4	260	180	180	160	120	65	7×4.5φ	4.5φ
	LF-330K4	TE-K22 M6	440	200	360	180	300	100	9×6.5φ	6.5φ
	LF-355K4	TE-K22 M6	540	300	470	270	400	130	9×6.5φ	6.5φ
	LF-380K4	TE-K22 M6	672	400	560	380	500	170	9×6.5φ	6.5φ

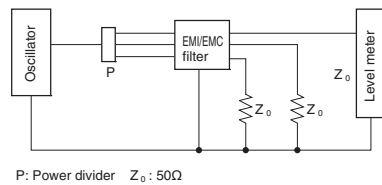
*Recommended torque (N·m) max.

◆Line terminal (M4: 1.86, M6: 5.78, M8: 10.29)

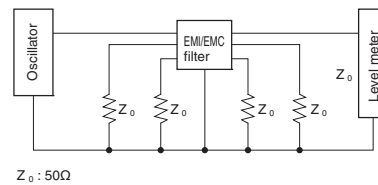
										[mm]
	Model	Terminal board	A	B	C	D	E	F	G	H
200V line	LF-310KA	TE-K5.5 M4	140	100	100	90	70	45	7×4.5φ	4.5φ
	LF-320KA	TE-K5.5 M4	140	100	100	90	70	45	7×4.5φ	4.5φ
	LF-350KA	TE-K22 M6	260	180	180	160	120	65	7×4.5φ	4.5φ
	LF-310KB	TE-K5.5 M4	140	100	100	90	70	45	7×4.5φ	4.5φ
400V line	LF-320KB	TE-K5.5 M4	140	100	100	90	70	45	7×4.5φ	4.5φ
	LF-335KB	TE-K5.5 M4	140	100	100	90	70	45	7×4.5φ	4.5φ
	LF-345KB	TE-K22 M6	260	180	180	160	120	65	7×4.5φ	4.5φ
	LF-375KB	TE-K22 M6	540	320	480	300	340	240	9×6.5φ	6.5φ
	LF-3110KB	TE-K60 M8	540	320	480	300	340	240	9×6.5φ	6.5φ

Measuring Circuit

●Common mode



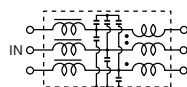
●Normal mode



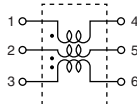
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Circuit Diagram

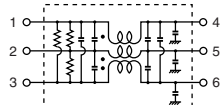
●LF-300 Series



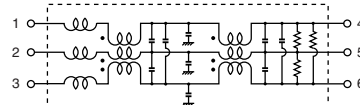
●KA, KB Series



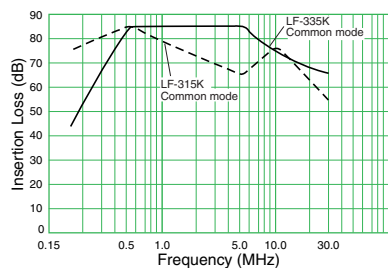
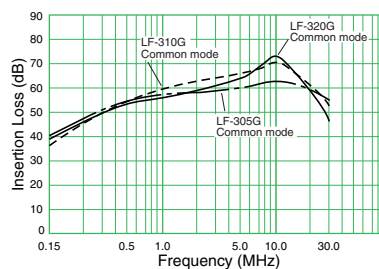
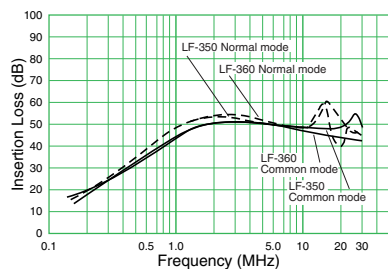
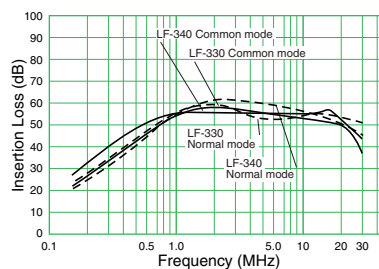
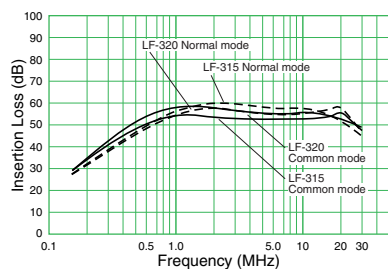
●LF-G Series



●K, K4 Series



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LF Series

Compliance with CE Marking



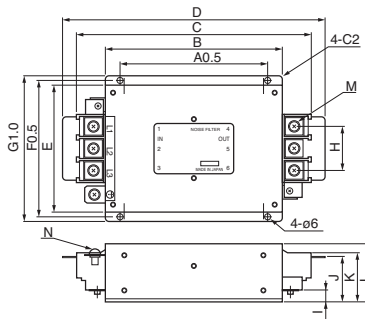
(LF-3000 Series)

[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard
LF-3200	250	20	2000	300	1.2	1.5	30	-25 to +55	TÜV
LF-3300	250	30	2000	300	1.2	1.5	30	-25 to +55	TÜV
LF-3400	250	40	2000	300	1.2	1.5	30	-25 to +55	TÜV
LF-3500	250	50	2000	300	1.2	1.5	30	-25 to +55	TÜV
LF-3600	250	60	2000	300	1.2	1.5	30	-25 to +55	TÜV

Shape and Dimensions

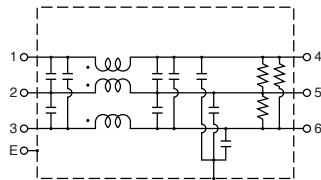


Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
LF-3200	150	180	219	247	90	100	110	32	17	45.5	47.5	60	M5	M5
LF-3300	150	180	219	247	90	100	110	32	17	45.5	47.5	60	M5	M5
LF-3400	150	180	237	264	129	139	149	46	24	58.5	63	75	M6	M6
LF-3500	150	180	237	264	129	139	149	46	14	48.5	53	60	M6	M6
LF-3600	300	330	387	414	180	200	220	46	55	89.5	94	115	M6	M6

[mm]

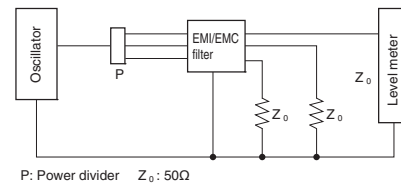
*Recommended torque (N·m) max. ◆Line terminal (M5: 3.33, M6: 5.78)
◆Earth terminal (M5: 3.33, M6: 5.78)

Circuit Diagram



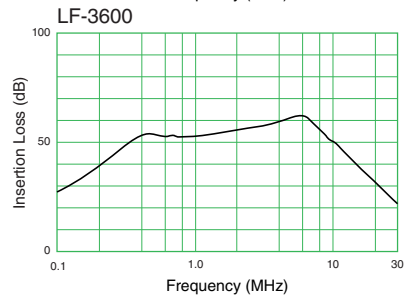
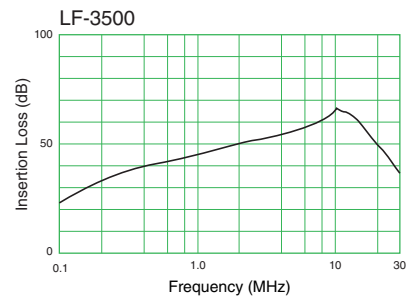
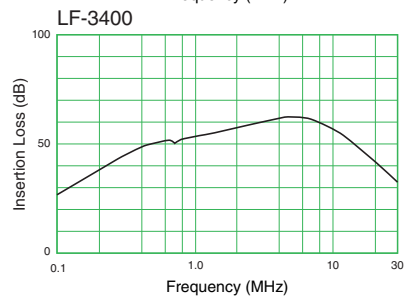
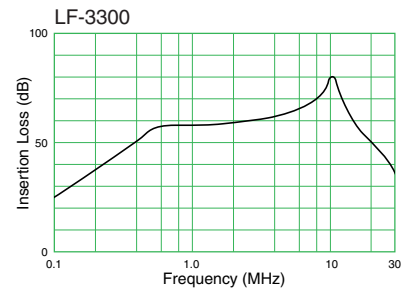
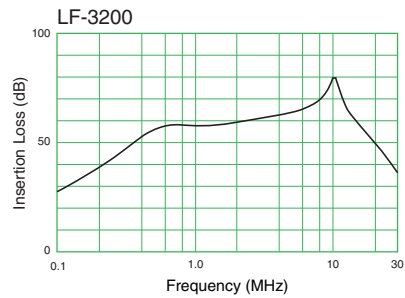
Measuring Circuit

●Common mode



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LH Series

Low-Frequency Inverters

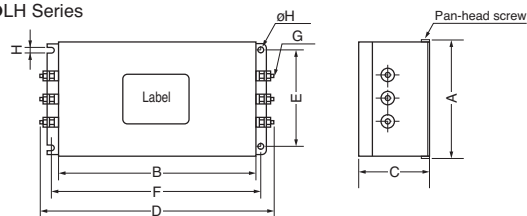
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Self- temperature rise (K) max.	Operating temperature range (°C)
LH-3102	250	10	2000	300	1	40	-20 to +45
LH-3152	250	15	2000	300	1	40	-20 to +45
LH-3202	250	20	2000	300	1	40	-20 to +45
LH-3302	250	30	2000	300	1	40	-20 to +45
LH-3402	250	40	2000	300	1	40	-20 to +45
LH-3502	250	50	2000	300	1	40	-20 to +45
LH-3602	250	60	2000	300	1	40	-20 to +45
LH-3702	250	70	2000	300	1	40	-20 to +45
LH-3802	250	80	2000	300	1	40	-20 to +45

Shape and Dimensions

●LH Series

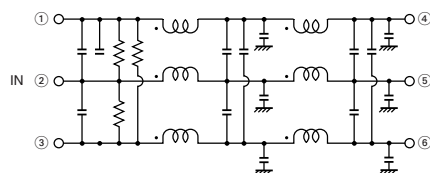


*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78, M6: 1.18, M8: 2.65)

Model	A	B	C	D	E	F	G	H
LH-3102	105	182	70	230 max.	80	200	M4	4.5
LH-3152	105	182	70	230 max.	80	200	M4	4.5
LH-3202	105	182	70	230 max.	80	200	M4	4.5
LH-3302	115	203	85	250 max.	75	220	M6	5.5
LH-3402	115	203	85	250 max.	75	220	M6	5.5
LH-3502	190	300	125	355 max.	150	320	M6	5.5
LH-3602	190	300	125	355 max.	150	320	M6	5.5
LH-3702	190	335	155	430 max.	150	360	M8	5.5
LH-3802	190	335	155	430 max.	150	360	M8	5.5

[mm]

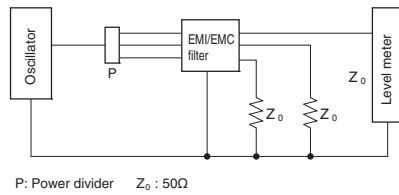
Circuit Diagram



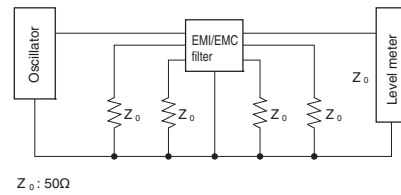
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

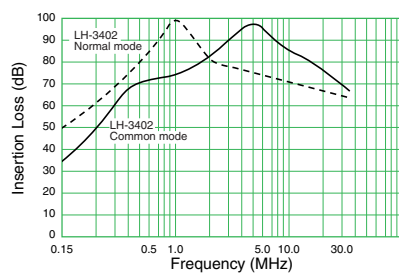
● Common mode



● Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

LH Series

Compliance with CE Marking



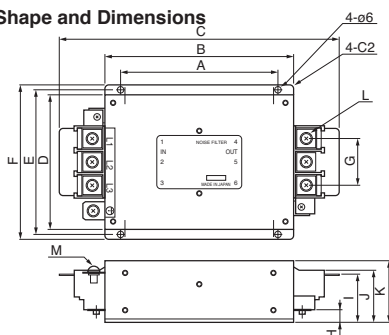
(LH-4 Series)

[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard
LH-3304	250	30	2000	300	1.2	1.5	30	-25 to +55	TÜV
LH-3404	250	40	2000	300	1.2	1.5	30	-25 to +55	TÜV
LH-3604	250	60	2000	300	1.2	1.5	30	-25 to +55	TÜV
LH-3804	250	80	2000	300	1.2	1.5	30	-25 to +55	TÜV
LH-31204	250	120	2000	300	1.2	1.5	30	-25 to +55	TÜV
LH-31504	250	150	2000	300	1.2	1.5	30	-25 to +55	TÜV

Shape and Dimensions



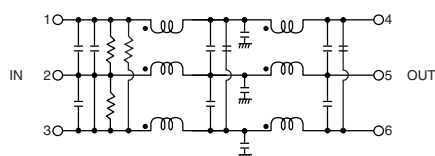
Model	A	B	C	D	E	F	G	H	I	J	K	L	M
LH-3304	250	280	349	90	100	110	32	17	45.5	47.5	85	M5	M5
LH-3404	250	280	366	129	139	149	46	23	58	62	85	M6	M6
LH-3604	306	336	422	160	170	180	46	55	90	94	160	M6	M6
LH-3804	450	480	600	210	230	250	56	60	103	107	170	M8	M8
LH-31204	480	510	630	222	242	262	56	60	103	107	170	M8	M8
LH-31504	630	660	788	250	270	290	76	70	126	130	200	M10	M10

[mm]

*Recommended torque (N·m) max.

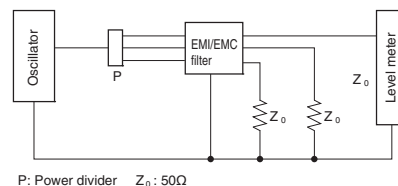
- ◆Line terminal (M5: 3.33, M6: 5.78, M8: 10.29, M10: 19.1)
- ◆Earth terminal (M5: 3.33, M6: 5.78, M8: 10.29, M10: 19.1)

Circuit Diagram

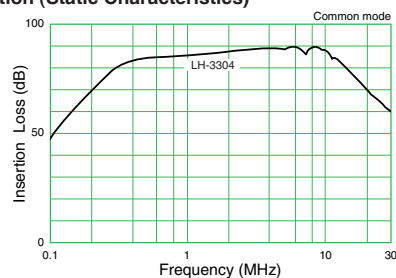


Measuring Circuit

Common mode

P: Power divider $Z_0: 50\Omega$

Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

HFP Series

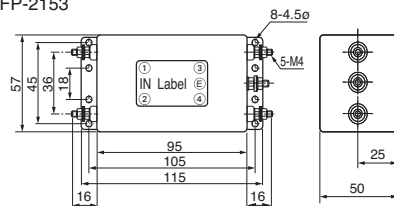
[RoHS Compliant]



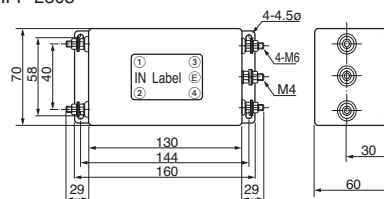
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current (mA) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (kg)
HFP-2153	250	15	AC1500	10	1.5 (250V, 60Hz)	30	-20 to +55	UL, CSA, TÜV	0.64
HFP-2303	250	30	AC1500	10	1.5 (250V, 60Hz)	30	-20 to +55	UL, CSA, TÜV	1.3
HFP-2303A1	250	30	AC1500	10	1.5 (250V, 60Hz)	30	-20 to +55	UL, CSA, TÜV	3.9
HFP-4153A	420	15	DC2600	10	3.5 (420V, 60Hz)	30	-20 to +55	UL, CSA, TÜV	6.5
HFP-4503A	420	50	DC2600	10	3.5 (420V, 60Hz)	35	-20 to +55	UL, CSA, TÜV	14.0

Shape and Dimensions

●HFP-2153

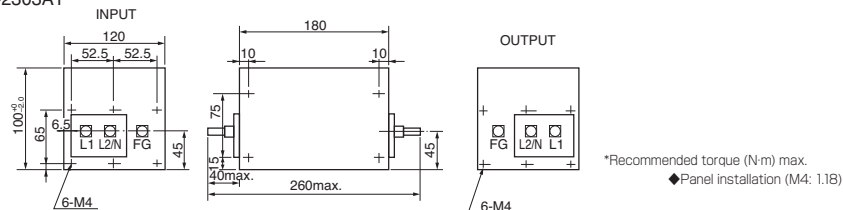


●HFP-2303



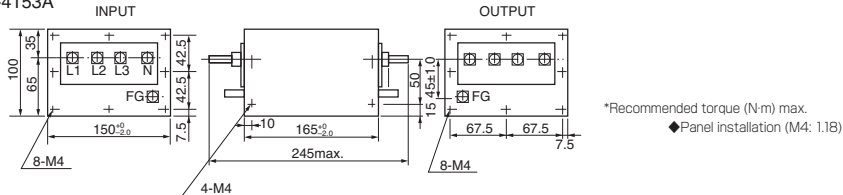
*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78, M6: 1.18) ◆Earth terminal (M4: 1.18)

●HFP-2303A1



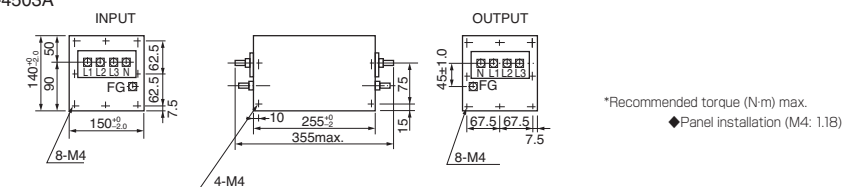
*Recommended torque (N·m) max.
◆Panel installation (M4: 1.18)

●HFP-4153A



*Recommended torque (N·m) max.
◆Panel installation (M4: 1.18)

●HFP-4503A



*Recommended torque (N·m) max.
◆Panel installation (M4: 1.18)

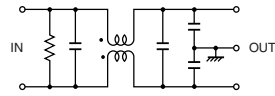
[mm]



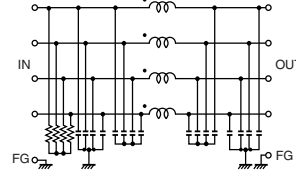
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Circuit Diagram

●HFP-2153, 2303, 2303A1

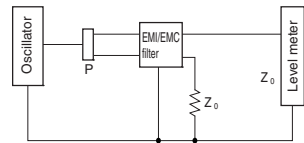


●HFP-4153A, 4503A

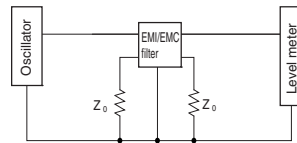


Measuring Circuit

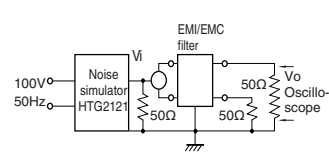
●Common mode

P : Power divider $Z_0 : 50\Omega$

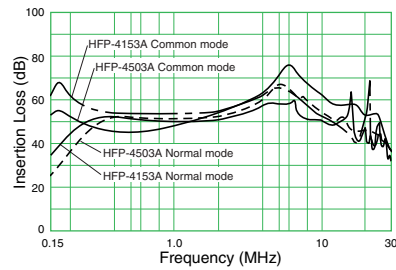
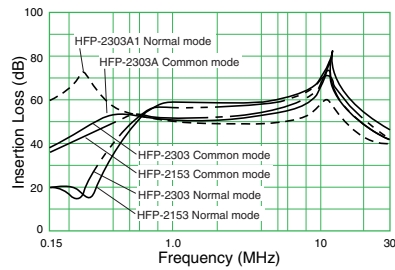
●Normal mode

 $Z_0 : 50\Omega$

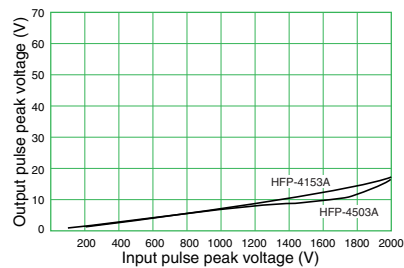
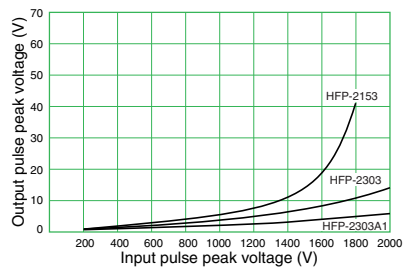
●Pulse characteristic measuring circuit



Attenuation (Static Characteristics)



Pulse Attenuation Example



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GT Series

Screw Terminal



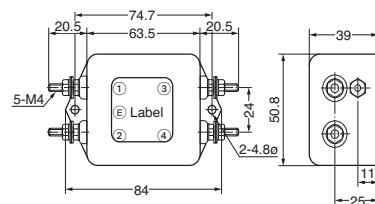
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GT-2050	250	5	1500	300	0.5	1	35	-20 to +55		150
GT-2100	250	10	1500	300	0.5	1	35	-20 to +55		260
GT-2150	250	15	1500	300	0.5	1	35	-20 to +55		270
GT-2200	250	20	1500	300	0.5	1	35	-20 to +55		270
GT-2050U	250	5	1500	300	0.5	1	35	-20 to +55	UL, TÜV, VDE, CSA	170
GT-2100U	250	10	1500	300	0.5	1	35	-20 to +55	UL, TÜV, VDE, CSA	260
GT-2150U	250	15	1500	300	0.5	1	35	-20 to +55	UL	270
GT-2200U	250	20	1500	300	0.5	1	35	-20 to +55	UL, TÜV	270
GT-2050R	250	5	1500	300	0.5	1	35	-20 to +55		160
GT-2100R	250	10	1500	300	0.5	1	35	-20 to +55		270
GT-2150R	250	15	1500	300	0.5	1	35	-20 to +55		280
GT-2200R	250	20	1500	300	0.5	1	35	-20 to +55		285

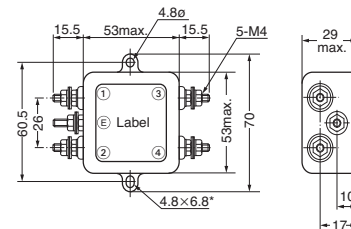
Shape and Dimensions

●GT-2100, GT-210U, GT-2150, GT-215U, GT-2200
GT-220U, GT-2150R, GT-2100R, GT-2200R



*Recommended torque (N·m) max. ◆Line terminal (M4: 0.7B) ◆Earth terminal (M4: 1.1B)

●GT-2050, GT-2050U, GT-2050R

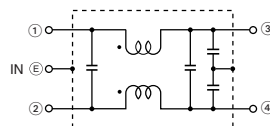


*ø4.8 for GT-2050U

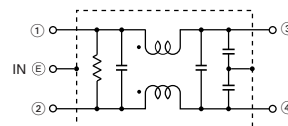
[mm]

Circuit Diagram

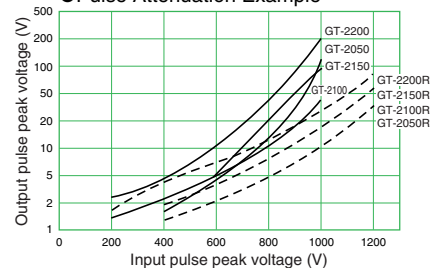
●GT-2000 Series
GT-2000R Series



●GT-200U Series



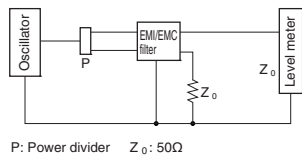
●Pulse Attenuation Example



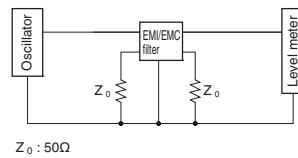
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

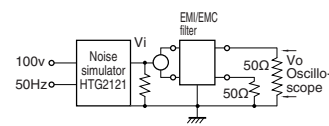
●Common mode



●Normal mode

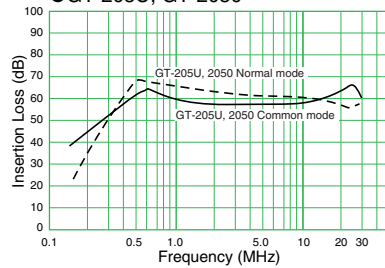


●Pulse-characteristic measuring circuit

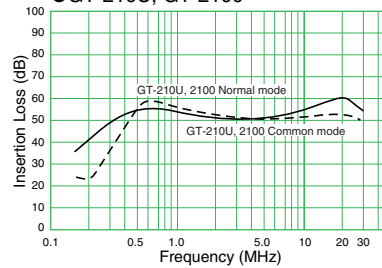


Attenuation (Static Characteristics)

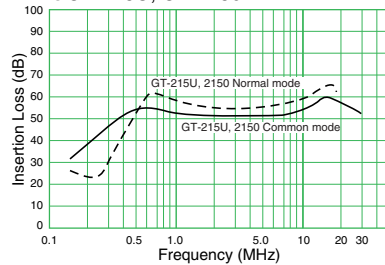
●GT-205U, GT-2050



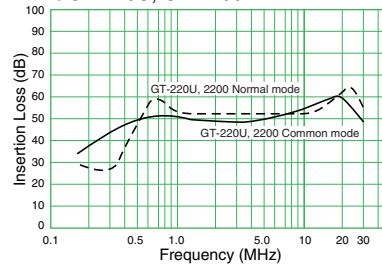
●GT-210U, GT-2100



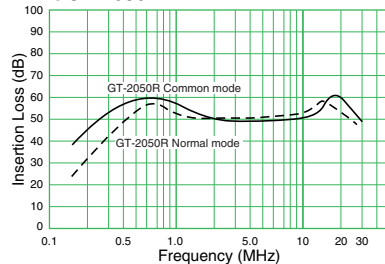
●GT-215U, GT-2150



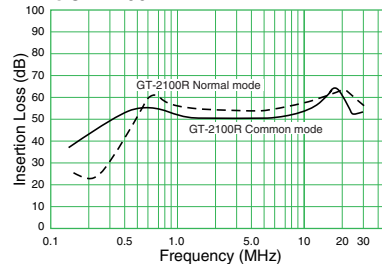
●GT-220U, GT-2200



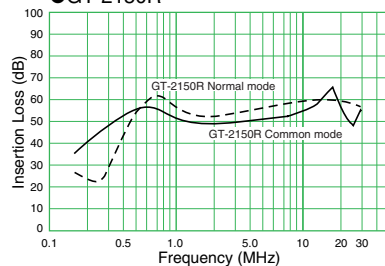
●GT-2050R



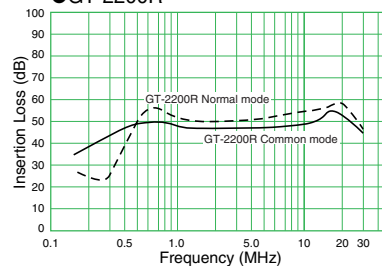
●GT-2100R



●GT-2150R



●GT-2200R



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GT Series

Faston Terminal

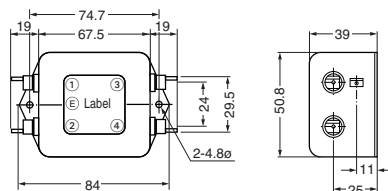
[RoHS Compliant]



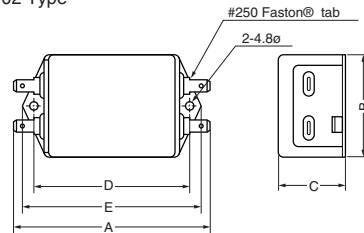
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GT-205J	250	5	1500	300	0.5	1	35	-20 to +55	UL, CSA, TÜV, VDE	135
GT-210J	250	10	1500	300	0.5	1	35	-20 to +55	UL, CSA, TÜV, VDE	240
GT-215J	250	15	1500	300	0.5	1	35	-20 to +50	UL, CSA, TÜV, VDE	255
GT-20301	250	3	1500	300	1.0	1	35	-20 to +50	UL, CSA, TÜV	160
GT-20601	250	6	1500	300	1.0	1	35	-20 to +55	UL, CSA, TÜV	190
GT-21001	250	10	1500	300	1.0	1	35	-20 to +55	UL, CSA, TÜV	300
GT-20302	250	3	1500	300	1.0	1	35	-20 to +55	UL, CSA, TÜV	215

Shape and Dimensions

●GT-210J, GT-215J

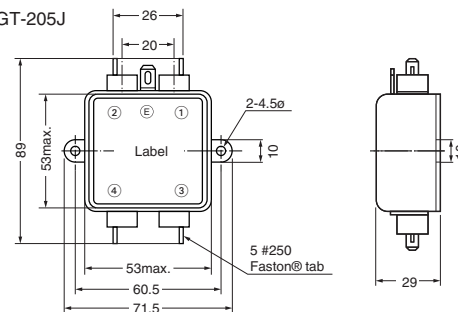


●GT-01, 02 Type



*Faston® is a registered trademark of Tyco Electronics AMP.

●GT-205J

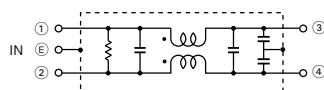


Model	A	B	C	D	E
GT-20301	91.5	52.0	30.0	74.7	84.3
GT-20601	105.7	57.5	32.0	87.1	96.5
GT-21001	105.7	57.5	44.5	87.1	96.5
GT-20302	91.5	52.0	45.0	74.7	84.3

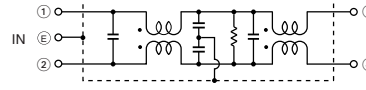
[mm]

Circuit Diagram

●GT-J, 01 Type



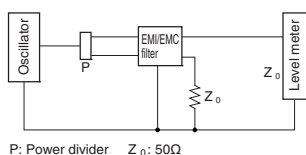
●GT-02 Type



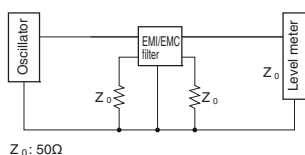
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

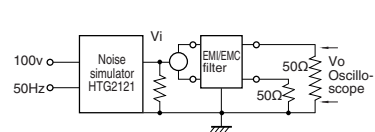
●Common mode



●Normal mode

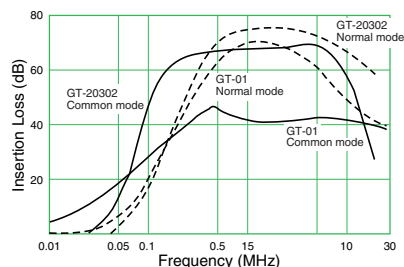
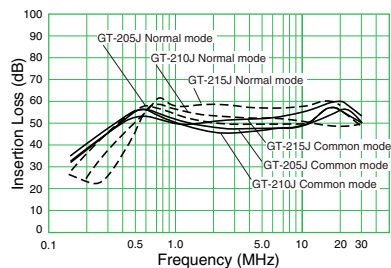
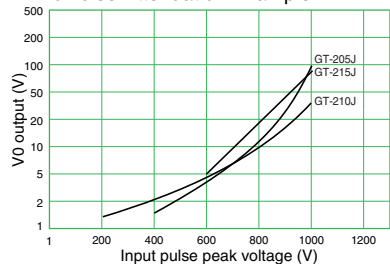


●Pulse characteristic measuring circuit



Attenuation (Static Characteristics)

●Pulse Attenuation Example



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GT Series

For VCCI

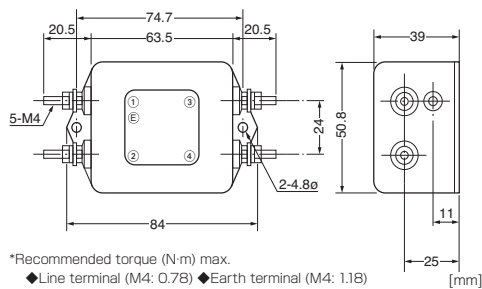


[RoHS Compliant]

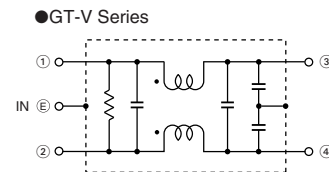


Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (kg)
GT-20501V	250	5	1500	300	0.5	1	35	-20 to +55		220
GT-21001V	250	10	1500	300	0.5	1	35	-20 to +55	UL, CSA, TÜV	280
GT-22001V	250	20	1500	300	0.5	1	35	-20 to +55		285

Shape and Dimensions

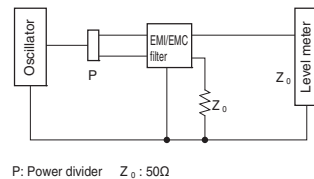


Circuit Diagram

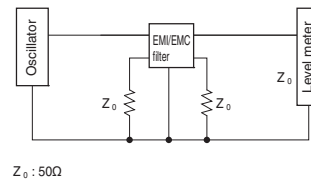


Measuring Circuit

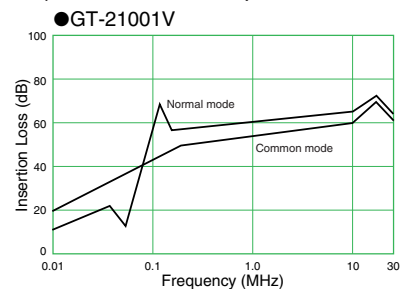
Common mode



Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GF Series

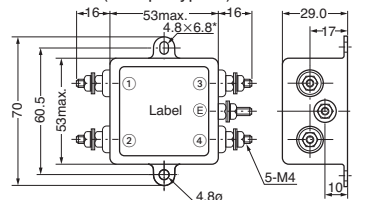
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GF-2050	250	5	1500	300	1	1.5	30	-20 to +60		130
GF-205U	250	5	1500	300	1	1.5	30	-20 to +60	UL	130
GF-2100	250	10	1500	300	1	1.5	30	-20 to +60		140
GF-210U	250	10	1500	300	1	1.5	30	-20 to +60	UL	140
GF-2150	250	15	1500	300	1	1.5	30	-20 to +60		140
GF-2200	250	20	1500	300	1	1.5	30	-20 to +60		150
GF-220U	250	20	1500	300	1	1.5	30	-20 to +60	UL	150
GF-205E	250	5	1500	300	1	1.5	30	-20 to +55	UL, CSA	130

Shape and Dimensions

●GE Series (Except Type E)

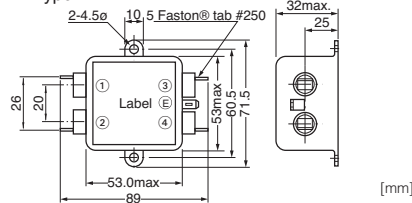


*4.8φ for UL devices

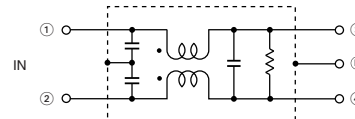
*Recommended torque (N·m) max. ◆Line terminal (M4: 0.78)

◆Earth terminal (M4: 1.18)

●GF-E Type

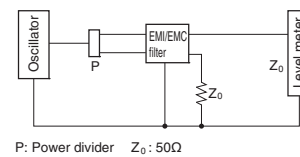


Circuit Diagram



Measuring Circuit

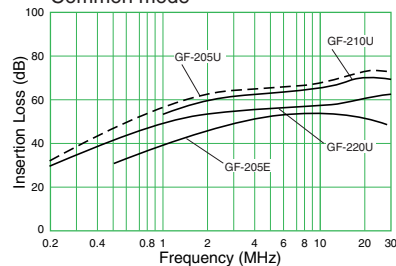
●Common mode



P: Power divider $Z_0: 50\Omega$

Attenuation (Static Characteristics)

Common mode



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

VU Series

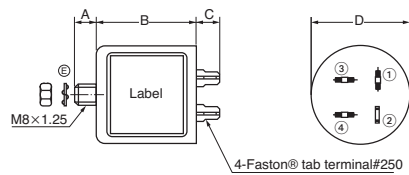
[RoHS Compliant]



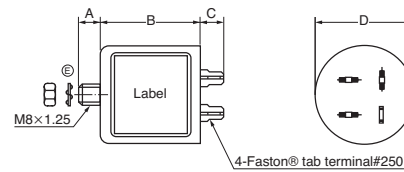
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
VU-210FA	250	10	1500	300	1	1.5	40	-25 to +55	UL, CSA	130
VU-215F	250	15	1500	300	1	1.5	40	-25 to +55	UL, CSA	130
VU-215F3	250	15	1500	300	1	1.5	40	-25 to +55	UL, CSA	105
VU-215FE	250	15	1500	300	1	1.5	40	-25 to +55	UL, CSA	130
VU-220F	250	20	1500	300	1	1.5	40	-25 to +55	UL, CSA, TÜV	240

Shape and Dimensions

●VU-215F, VU-215F3, VU-220F, 210FA



●VU-215FE



*Faston® is a registered trademark of Tyco Electronics AMP.

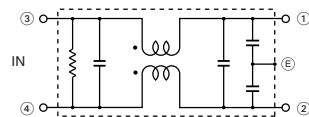
Model	A	B	C	D
VU-215F	12	50	12	38
VU-215F3	12	40	13	45
VU-215FE	12	50	12	38
VU-220F, 210FA	12	50	12	50

*Recommended torque (N·m) max. ◆Earth terminal (M8: 4.41)

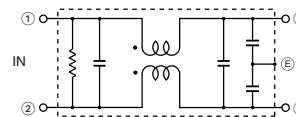
[mm]

Circuit Diagram

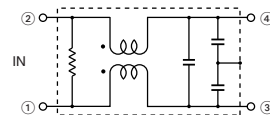
●VU-210FA, 215F, 220F



●VU-215FE



●VU-215F3



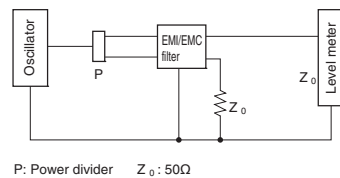
Caution: (E) represents a screw installation portion (M8).



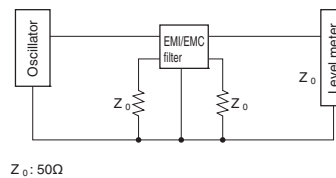
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

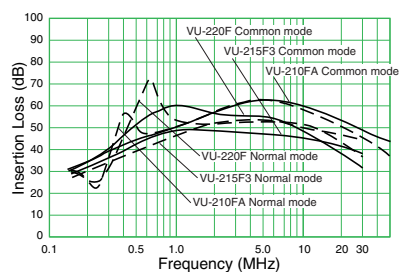
● Common mode



● Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

VC Series

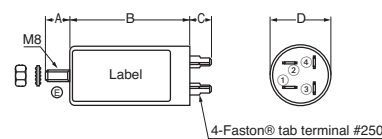
[RoHS Compliant]



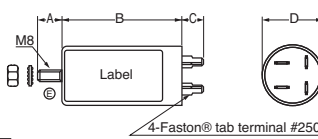
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
VC-210FA	250	10	1500	300	1.5	1	40	-20 to +55	VDE	130
VC-215F3V	250	15	1500	300	1.5	1	40	-20 to +55	TÜV	110

Shape and Dimensions

●VC-210FA



●VC-215F3V



Model	A	B	C	D
VC-210FA	12	70	12	38
VC-215F3V	12	60	12	38

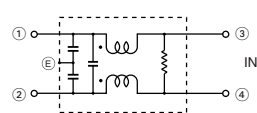
*Recommended torque (N·m) max. ◆Earth terminal (MB: 4.41)

*Faston® is a registered trademark of Tyco Electronics AMP.

[mm]

Circuit Diagram

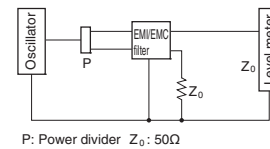
●VC Series



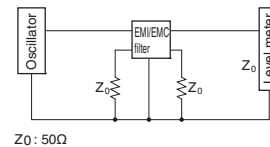
Caution: (E) represents a case.

Measuring Circuit

●Common mode

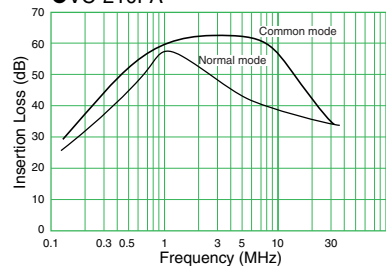


●Normal mode



Attenuation (Static Characteristics)

●VC-210FA



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

VG-FPZ Series

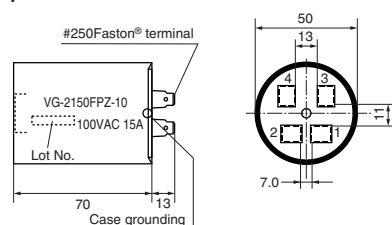
for inverter installed home appliances' surge control

[RoHS Compliant]



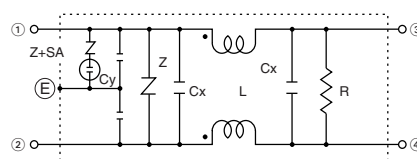
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Operating temperature range (°C)	Weight (g)
VG-2150FPZ-10	100	15	1000	300	0.5 (125V)	-25 to +55	200
VG-2150FPZ-20	200	15	1500	300	1.0 (250V)	-25 to +55	200
VG-2200FPZ-10	100	20	1000	300	0.5 (125V)	-25 to +55	220

Shape and Dimensions



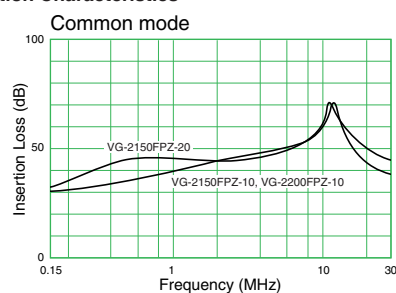
*Faston® is a registered trademark of Tyco Electronics AMP. [mm]

Circuit Diagram



Caution: (E) represents a case.

Attenuation Characteristics



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

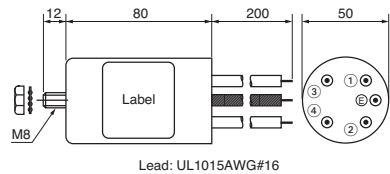
RG Series
[RoHS Compliant]



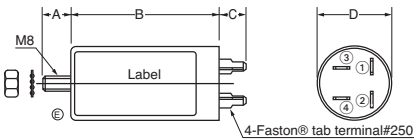
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
RG-208F	250	8	1500	100	1	2	55	-20 to +50	TÜV	320
RG-208F1	250	8	1500	100	1	2	55	-20 to +50	UL, TÜV	320
RG-208F2	250	8	1500	100	1	2	55	-20 to +50	UL, TÜV	220
RG-208V-A	250	8	1500	100	1	2	55	-20 to +50	TÜV	370

Shape and Dimensions

●RG-208V-A



●RG-208F, 208F1, 208F2



*Faston® is a registered trademark of Tyco Electronics AMP.

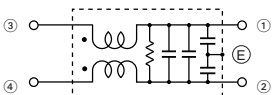
*Recommended torque (N·m) max. ◆Earth terminal (M8: 4.41)

Model	A	B	C	D
RG-208F/F1	12	90	13	50
RG-208F2	12	60	13	50

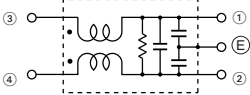
[mm]

Circuit Diagram

●RG-208F2



●RG-208F, 208F1, 208V-A



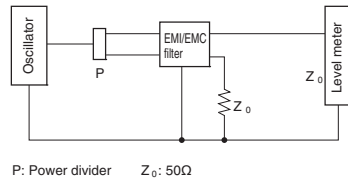
Caution: (E) represents a screw installation portion (M8) in modelRG-208F.



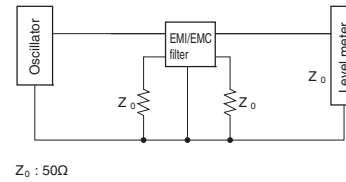
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

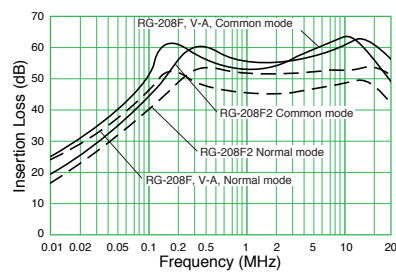
● Common mode



● Normal mode



Attenuation (Static Characteristics)



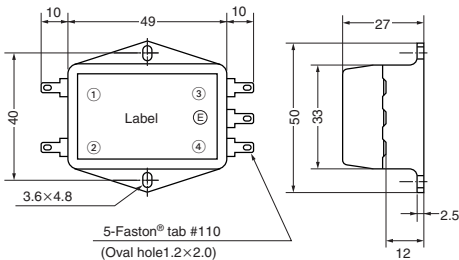
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

MR Series
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature rise (°C)	Certified standard	Weight (g)
MR-2021	250	2	1500	300	0.75	1.5	30	-20 to +60	UL, CSA, VDE	35
MR-2032	250	3	1500	300	—	1.5	30	-20 to +60	UL, CSA	35
MR-2043	250	4	1500	300	0.75	1.5	30	-20 to +60	UL, CSA, VDE	40
MR-2053	250	5	1500	300	0.75	1.5	30	-20 to +60		40
MR-2054	250	5	1500	300	0.75	1.5	30	-20 to +60		40
MR-2029	250	2	1500	300	0.5	1.5	30	-20 to +60		35
MR-2059	250	5	1500	300	0.5	1.5	30	-20 to +60		35

Shape and Dimensions



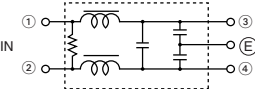
Caution: No (E) terminals on MR-2032.

*Faston® is a registered trademark of Tyco Electronics AMP.

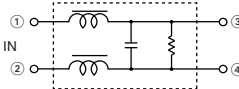
[mm]

Circuit Diagram

●MR-2021

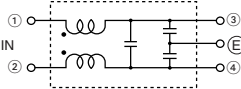


●MR-2032

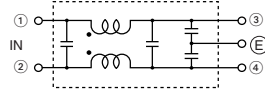


●MR-2043, MR-2053

●MR-2029, MR-2059



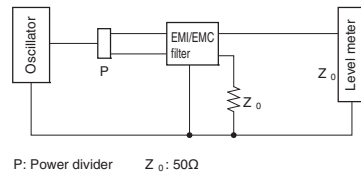
●MR-2054



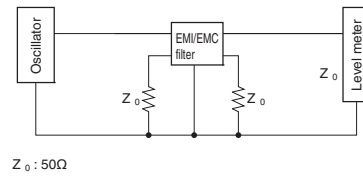
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

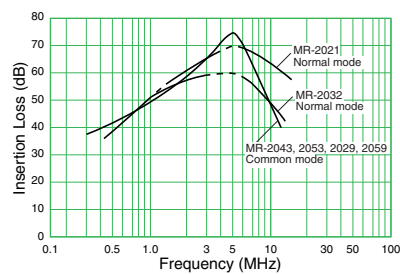
●Common mode



●Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

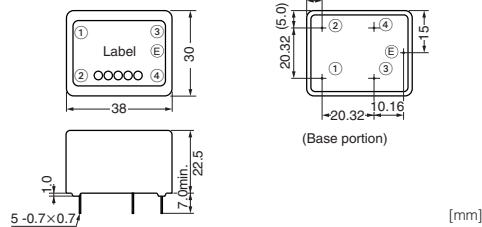
MA Series

[RoHS Compliant]



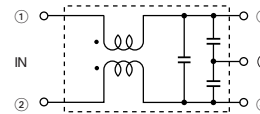
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self- temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
MA-2013	250	1	1500	300	0.75	1	30	-25 to +55	UL, CSA, TÜV	30
MA-2023	250	2	1500	300	0.75	1	30	-25 to +55	UL, CSA, TÜV	30
MA-2033	250	3	1500	300	0.75	1	30	-25 to +55	UL, CSA, TÜV	30
MA-2043	250	4	1500	300	0.75	1	30	-25 to +55	UL, CSA, TÜV	30
MA-2053	250	5	1500	300	0.75	1	30	-25 to +55	UL, CSA, TÜV	30

Shape and Dimensions



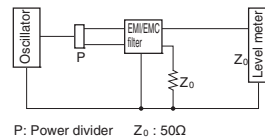
Circuit Diagram

● MA Series

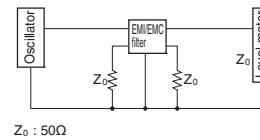


Measuring Circuit

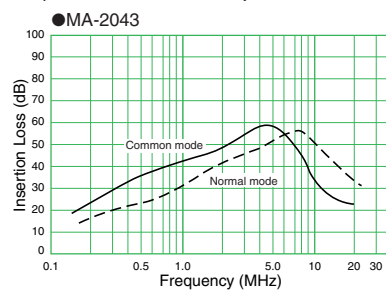
● Common mode



● Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GL Series

C Type



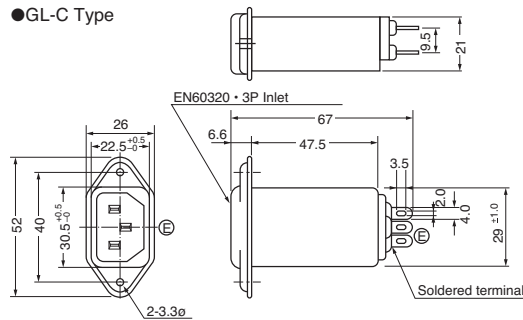
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (μA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GL-2030C	250	3	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV, VDE	55
GL-2060C	250	6	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV, VDE	55
GL-2100C	250	10	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2150C	250	15	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2030C2	250	3	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2030C3	250	3	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2060C3	250	6	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2060C1	250	6	1500	300	5	1	30	-25 to +55	UL, CSA	55
GL-2080C1	250	8	1500	300	5	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2080C4	250	8	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55
GL-2030CT	250	3	1500	300	5	1	30	-25 to +55	UL	55
GL-2060C4	250	6	1500	300	500	1	30	-25 to +55	UL, CSA, TÜV	55

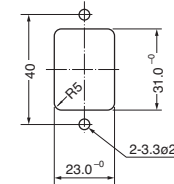
Shape and Dimensions

●GL-C Type

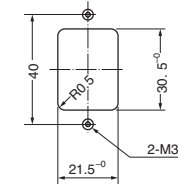


Reference Installation Dimensions

(1) For rear panel installation



(2) For front panel installation



*Recommended torque (N·m) max.

◆Panel installation (M3: 0.78)

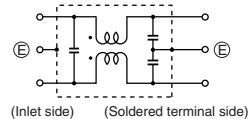
[mm]



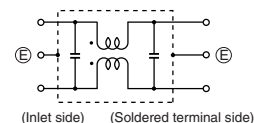
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Circuit Diagram

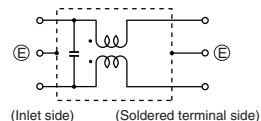
●GL-C, C2, C3, C4 Type



●GL-C1

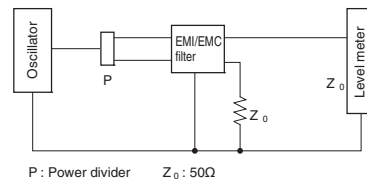


●GL-CT

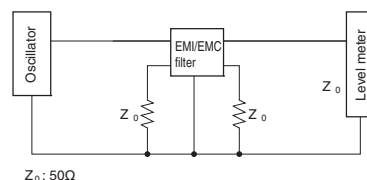


Measuring Circuit

●Common mode

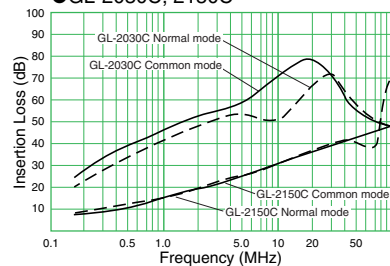


●Normal mode

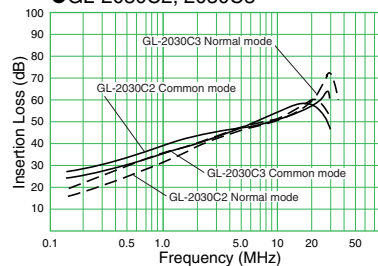


Attenuation (Static Characteristics)

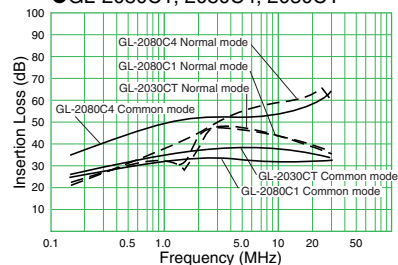
●GL-2030C, 2150C



●GL-2030C2, 2030C3



●GL-2080C1, 2080C4, 2030CT



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GL Series

F, FV, FVP Type



[RoHS Compliant]



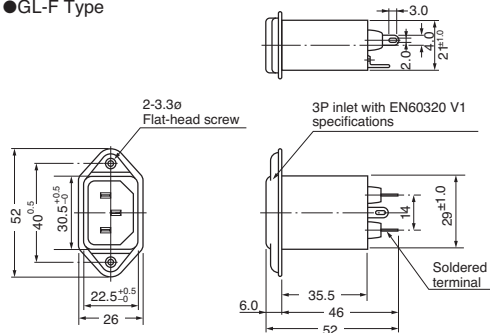
Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GL-2030F	250	3	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV, VDE	40
GL-2060F	250	6	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV, VDE	40
GL-2030FV	250	3	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV, VDE	40
GL-2060FV	250	6	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV, VDE	40
GL-2080FVP	250	8	1500	300	0.2	1	30	-25 to +55	cULus	50
GL-2060FVP-XL	250	6	1500	300	0.1	1	30	-25 to +55	—	90

*FV and FVP types are also available with Faston® terminal.

*Faston® is a registered trademark of Tyco Electronics AMP.

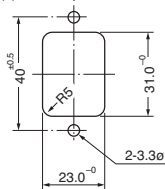
Shape and Dimensions

●GL-F Type

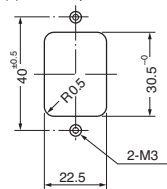


Reference installation dimensions

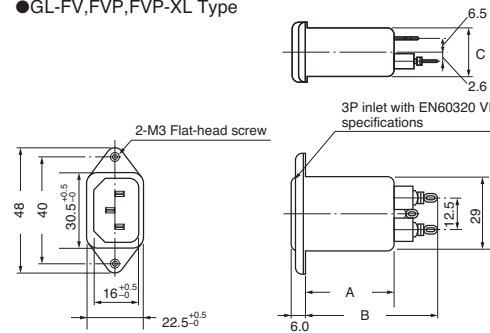
(1) For rear panel installation



(2) For front panel installation



●GL-FV, FVP, FVP-XL Type

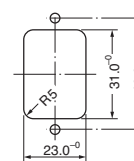


Model	A	B	C
GL-FV	35.5	50.0	21.0
GL-FVP	47.5	61.0	21.0
GL-FVP-XL	69.5	82.8	22.0

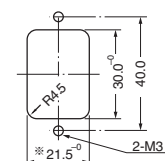
[mm]

Reference installation dimensions

(1) For rear panel installation



(2) For front panel installation



※22.5 for GL-2060FVP-XL

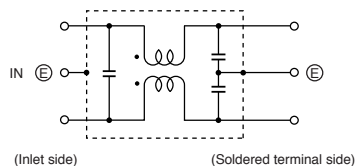
*Recommended torque (N·m) max. ◆Panel installation (M3: 0.78)



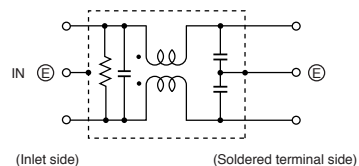
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Circuit Diagram

●GL-F FV FVP Type

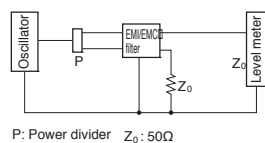


●GL-FVP-XL

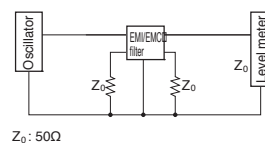


Measuring Circuit

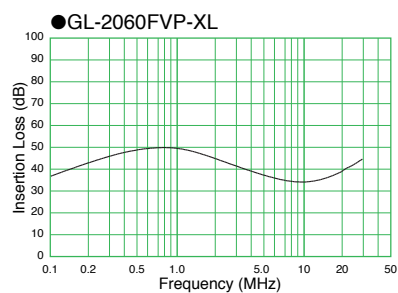
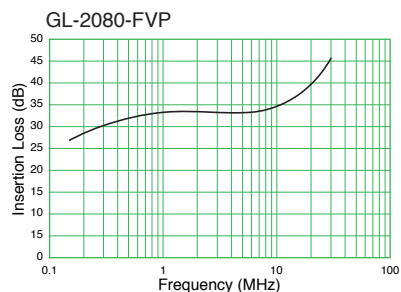
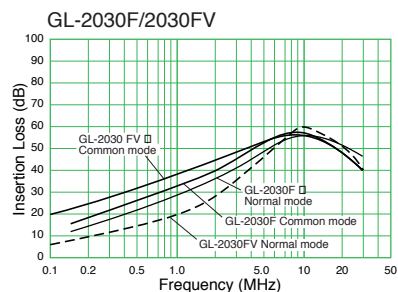
●Common mode



●Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GL Series

H Type



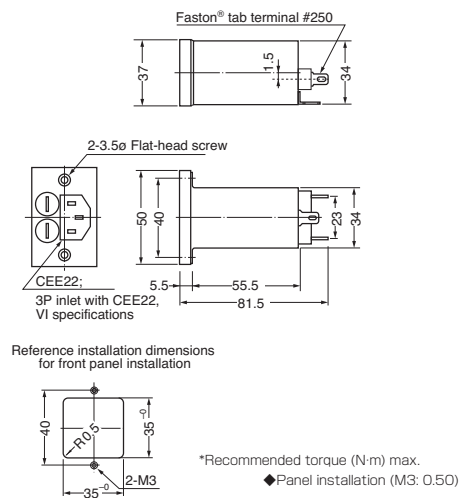
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GL-2030H2	250	3	1500	300	0.5	1	30	-25 to +55	TÜV	90
GL-2060H2	250	6	1500	300	0.5	1	30	-25 to +55	TÜV	90

Shape and Dimensions

●GL-H2 Type (2-fuse type)

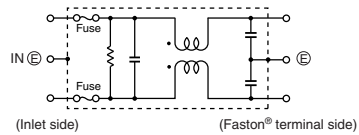


*Faston® is a registered trademark of Tyco Electronics AMP.

[mm]

Circuit Diagram

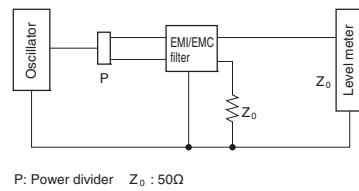
●GL-H2 Type



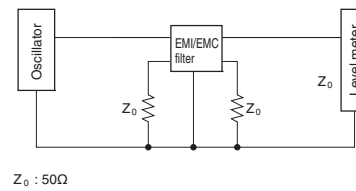
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Measuring Circuit

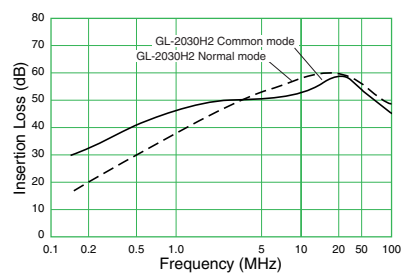
●Common mode



●Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

GL Series

M Type



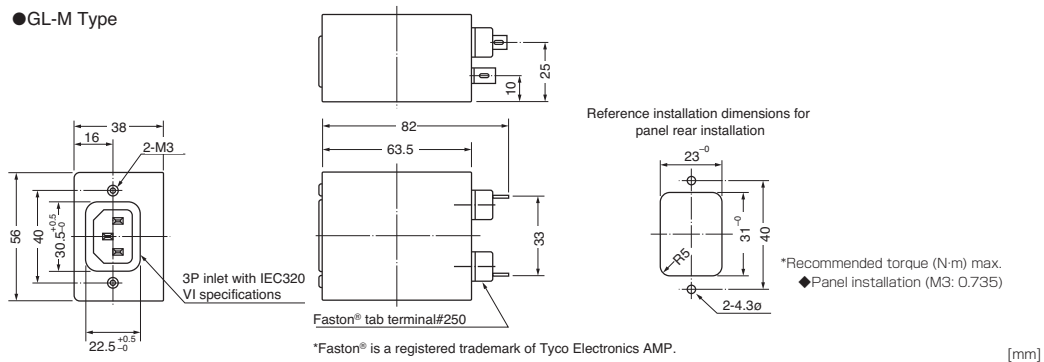
[RoHS Compliant]



Model	Rated voltage AC/DC (V)	Rated current AC/DC (A)	Withstanding voltage 1 min., line to ground AC (V)	Insulation resistance 500VDC 1 min., line to ground (MΩ) min.	Leakage current 250V/60Hz, (mA) max.	Voltage drop 50Hz, (V) max.	Self-temperature rise (K) max.	Operating temperature range (°C)	Certified standard	Weight (g)
GL-2030M	250	3	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV	200
GL-2060M	250	6	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV	205
GL-2100M	250	10	1500	300	0.5	1	30	-25 to +55	UL, CSA, TÜV	210

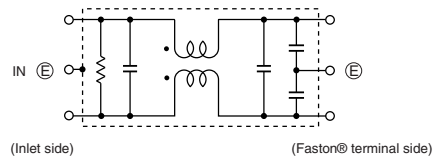
Shape and Dimensions

●GL-M Type



Circuit Diagram

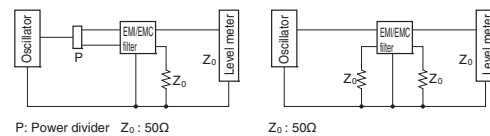
●GL-M Type



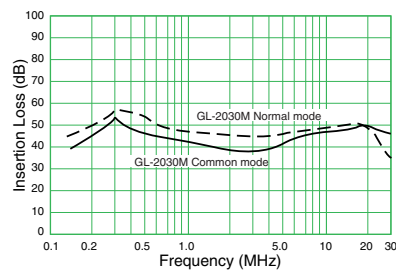
Measuring Circuit

●Common mode

●Normal mode



Attenuation (Static Characteristics)



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

TÜV Rheinland Japan Ltd.
Certification Numbers

Page	Item	File No.
21	LF-3000 Series	LF-3200
		LF-3300
		LF-3400
		LF-3500
		LF-3600
25	LH Series	LH-3304
		LH-3404
		LH-3604
		LH-3804
		LH-31204
		LH-31504
26	HFP Series	HFP-2153
		HFP-2303
		HFP-2303A1
		HFP-4153A
		HFP-4503A
28	GT Series Screw Terminal	GT-220U
		GT-205U
		GT-210U
30	GT Series Faston® Terminal	GT-20301
		GT-20601
		GT-21001
		GT-20302
		GT-205J
		GT-210J
32	GT Series for VCCI	GT-21001V
		VU-220F
		VC-215F3V
		RG-208F
38	RG Series	RG-208F1
		RG-208F2
		RG-208V-A

Page	Item	File No.
42	MA Series	MA-2013
		MA-2023
		MA-2033
		MA-2043
		MA-2053
43	GL Series C Type	GL-2030C
		GL-2060C
		GL-2100C
		GL-2150C
		GL-2030C2
		GL-2030C3
		GL-2060C3
		GL-2080C1
45	GL Series F Type	GL-2080C4
		GL-2060C4
		GL-2030F
		GL-2060F
47	GL Series H Type	GL-2030FV
		GL-2060FV
49	GL Series M Type	GL-2030H2
		GL-2060H2
		GL-2030M
		GL-2060M



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.

Precautions



- The names of the products and the specifications in this catalog are subject to change without notice for the sake of improvement. The manufacturer also reserves the right to discontinue any of these products. At the time of delivery, please ask for specifications sheets to check the contents in order to use the products properly and safely.
- Descriptions in this catalog regarding product characteristics and quality are based solely on discrete components. When using these components, be sure to check the specifications with the component in question mounted on the products.
- The manufacturer's warranty will not cover any disadvantage or damage caused by improper use of the products that deviates from the characteristics, specifications, or conditions for use described in this catalog.
- The products in this catalog are intended for use in ordinary electronic products. If any of these products are to be used in special applications requiring extremely high reliability, such as in aviation equipment and nuclear power controllers where product defects might pose a safety risk, please consult your NEC TOKIN sales representatives.
- Though the manufacturer has taken all possible precautions to ensure the quality and reliability of its products, improper use of products may result in bodily injury, fire, or similar accident. If you have any questions regarding the use of the products in question, please consult your NEC TOKIN sales representatives.
- Please be advised that the manufacturer accepts no responsibility for any infraction by users of the manufacturer's products on third party patents or industrial copyrights. The manufacturer is responsible only when such infractions are attributable to the structural design of the product and its manufacturing process.
- Export Control
For customers outside Japan
NEC TOKIN products should not be used or sold for use in the development, production, stockpiling or utilization of any conventional weapons or mass-destructive weapons(nuclear weapons, chemical or biological weapons, or missiles), or any other weapons.
For customers in Japan
For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.
- This catalog is current as of June 2011.



- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact NEC TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
- Before using the product in this catalog, please read "Precautions" and other safety precautions listed in the printed version catalog.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.