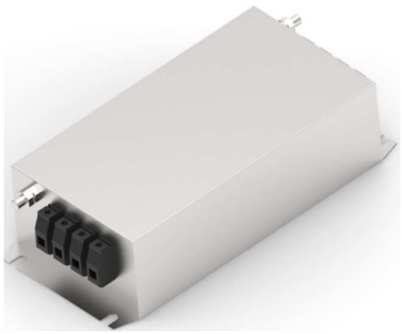
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KEP SERIES

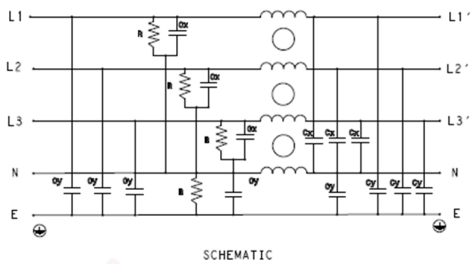
Three Phase Superior Performance EMI Filter – Single Stage WYE Configuration

DATASHEET

Provides superior performance when used in applications with low Impedance load controlling pulsed, continuous and intermittent interference noise and where high levels of mains borne interference are present.



Typical Circuit Diagram



SCHEMATIC

Approvals & Compliance

UL Recognised *

CSA Certified **

RoHS compliant

*31st July 2020

**31st August 2020

Features

- Compact
- Superior Performance
- Chassis mounting with neutral
- Low Leakage current

Applications

- CNC Machines
- HVAC
- Rectifier
- AC/DC Converters

Specifications

Electrical Characteristics

Maximum Continuous Operating Voltage	440/520VAC
Current Ratings	6A to 250A @40°C
Operating Frequency	50/60Hz
High Potential Test Voltage -440VAC	Line to Ground 2632VDC for 1 Minute
	Line to Line 1892VDC for 1 Minute
High Potential Test Voltage -520VAC	Line to Ground 2856VDC for 1 Minute
	Line to Line 2236VDC for 1 Minute
Overload Capability	135% of Rated current for 15 minutes

Functional Characteristics

Operating Temperature Range	-25°C to +85ºC
Climatic Category	25/85/21
Termination (Depends on Current Rating)	Shock Proof (6-100A), Nut & Bolt (150-250A)
Flammability corresponding to	UL 94 V-0

Reference Standards

Design Corresponding to	UL 60939-3 and CSA 22.2 No.8-13

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KEP SERIES

Selection Table

TE Ordering Number	Catalog Number	Rated Current @40°C	Rated Voltage @40°C	Leakage Current (mA)	Termination		Weight (Kgs)
1-1609968-0	6KEPS10AFPW	6A	440 VAC	8.5	41		1
1-1609968-1	8KEPS10AFPW	8A	440 VAC	8.5	41		2
1-1609968-2	10KEPS10AFPW	10A	440 VAC	8.5	41		2
1-1609968-3	16KEPS10AFPW	16A	440 VAC	8.5	41		3
1-1609968-4	20KEPS10AFPW	20A	440 VAC	8.5	41		3
1-1609968-5	25KEPS10AFPW	25A	440 VAC	8.5	41		3
1-1609968-6	36KEPS10AFPW	36A	440 VAC	8.5	10		3
1-1609968-7	50KEPS10AFPW	50A	440 VAC	8.5	10		3
2-1609968-0	60KEPS10AFPW	60A	440 VAC	8.5	16		8
2-1609968-1	75KEPS10AFPW	75A	440 VAC	12	16		8
2-1609968-2	100KEPS10AFPW	100A	440 VAC	12	25		8
2-1609968-3	125KEPS6AFPW	125A	440 VAC	12		M10	9
2-1609968-4	150KEPS6AFPW	150A	440 VAC	12		M10	9
2-1609968-5	200KEPS6AFPW	200A	440 VAC	12		M10	11
2-1609968-6	250KEPS6AFPW	250A	440 VAC	12		M10	11
4-1609968-0	6KEPS10AFPW	6A	520 VAC	8.5	41		1
4-1609968-1	8KEPS10AFPW	8A	520 VAC	8.5	41		2
4-1609968-2	10KEPS10AFPW	10A	520 VAC	8.5	41		2
4-1609968-3	16KEPS10AFPW	16A	520 VAC	8.5	41		3
4-1609968-4	20KEPS10AFPW	20A	520 VAC	8.5	41		3
4-1609968-5	25KEPS10AFPW	25A	520 VAC	8.5	41		3
4-1609968-6	36KEPS10AFPW	36A	520 VAC	8.5	10		3
4-1609968-7	50KEPS10AFPW	50A	520 VAC	8.5	10		3
5-1609968-0	60KEPS10AFPW	60A	520 VAC	8.5	16		8
5-1609968-1	75KEPS10AFPW	75A	520 VAC	12	16		8
5-1609968-2	100KEPS10AFPW	100A	520 VAC	12	25		8
5-1609968-3	125KEPS6AFPW	125A	520 VAC	12		M10	9
5-1609968-4	150KEPS6AFPW	150A	520 VAC	12		M10	9
5-1609968-5	200KEPS6AFPW	200A	520 VAC	12		M10	11
5-1609968-6	250KEPS6AFPW	250A	520 VAC	12		M10	11

Connectors Cross Section

	41	10	16	25	50
Wire Section (mm^2)	$4mm^2$	$10\ mm^2$	$16\ mm^2$	$25\ mm^2$	$50\ mm^2$
Wire Section (AWG)	12AWG	8 AWG	6 AWG	4 AWG	1/0 AWG
Wire Stripping	Max 10mm	max 13.5 mm	max 17 mm	max 17 mm	max 20 mm
Max Recommended Torque	0.5 Nm / 4.5 in.lbs	1.2 Nm / 10.8 in.lbs	2÷2.2 Nm / 18÷19.8 in.lbs	2 Nm / 18 in.lbs	6 Nm / 54 in.lbs

2376459-1
Rev A
Date: 1-Jul-2020

Dimensions in millimetres

Dimensions Shown for reference purposes only. Specifications subject to change

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Insertion Loss (Typical) – Measured in Closed 50Ω System

Common Mode 50Ω / 50Ω

Current Rating	Frequency in MHz								
	0.01	0.05	0.15	0.5	1	3	5	10	30
6A	61	60	60	55	49	40	38	34	26
8A	62	64	57	52	50	44	36	32	28
10A	60	60	59	54	50	42	37	32	26
16A	54	58	59	54	49	41	37	31	28
20A	55	57	60	51	45	38	30	28	32
25A	54	58	50	54	47	43	38	33	25
36A	57	56	58	51	50	48	35	33	31
50A	68	65	63	54	49	42	38	32	36
60A	46	44	40	40	31	40	38	30	21
75A	50	50	51	53	50	48	42	36	34
100A	54	50	50	52	60	48	42	38	34
125A	52	50	45	50	58	48	44	40	38
150A	36	38	41	53	48	50	45	31	21
200A	32	39	41	53	45	52	45	30	21
250A	37	38	45	53	48	39	35	31	23

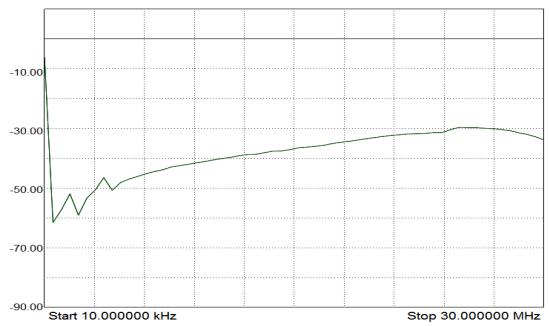
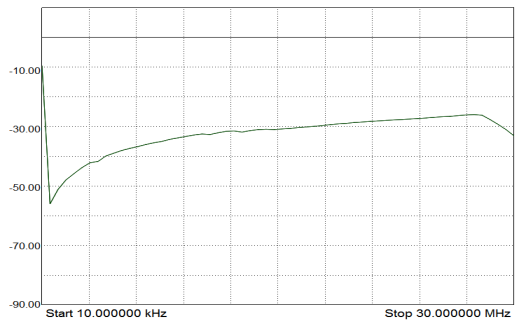
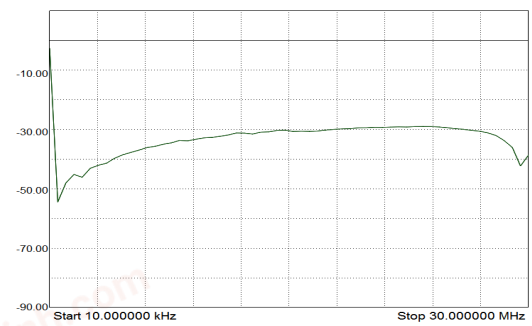
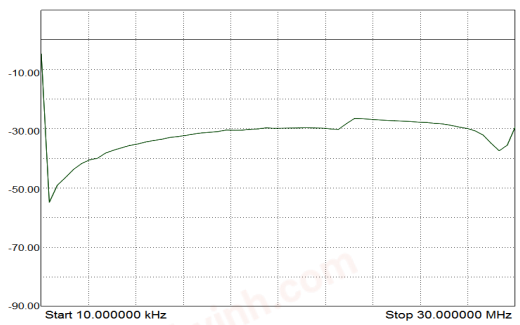
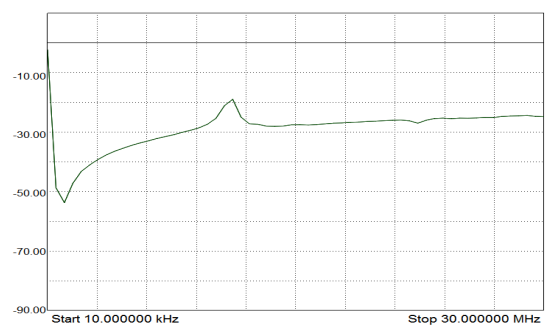
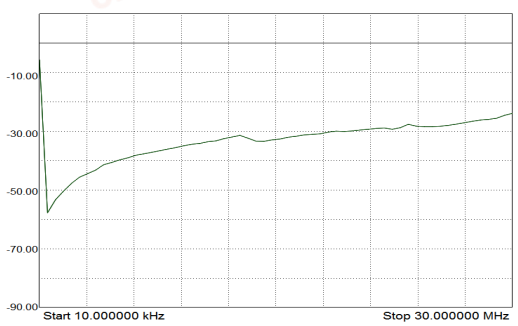
Differential Mode 50Ω / 50Ω

Current Rating	Frequency in MHz								
	0.01	0.05	0.15	0.5	1	3	5	10	30
6A	56	52	54	50	47	35	30	40	32
8A	45	35	42	54	48	35	40	29	26
10A	30	31	40	54	46	38	33	29	24
16A	27	32	55	53	47	36	35	30	27
20A	35	32	52	50	47	36	33	30	25
25A	51	51	53	52	45	37	35	30	25
36A	49	50	65	82	86	70	65	66	37
50A	58	52	60	50	43	50	42	38	30
60A	54	50	62	68	63	50	55	63	52
75A	48	42	40	60	38	40	40	39	35
100A	48	42	40	62	38	44	42	40	32
125A	48	42	40	62	38	50	46	42	34
150A	25	28	30	46	55	48	46	34	38
200A	27	28	30	46	55	48	46	34	38
250A	42	42	45	46	40	34	29	24	18

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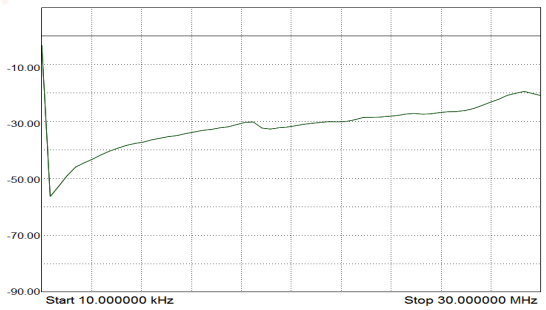
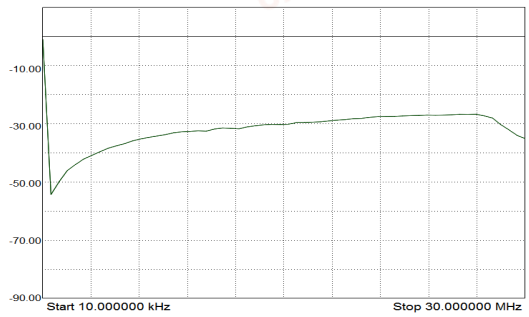
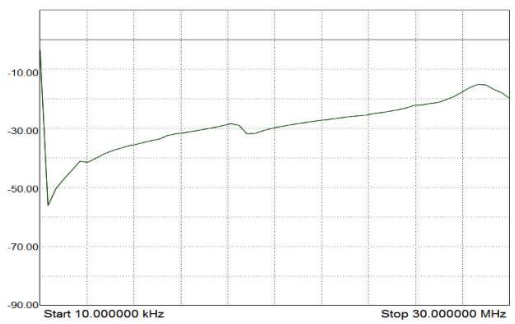
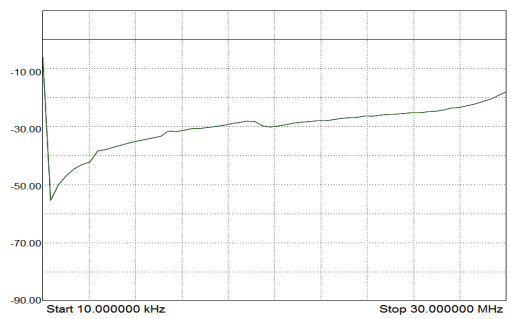
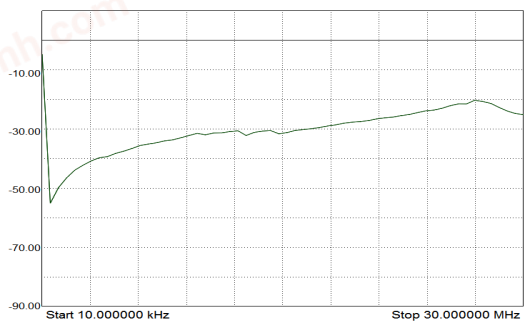
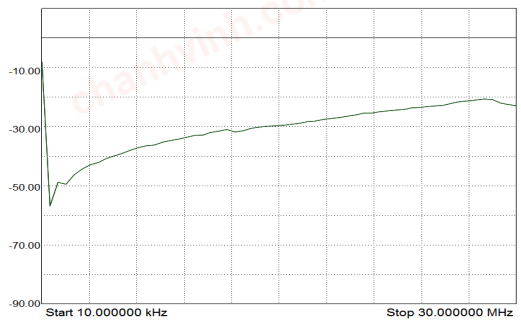
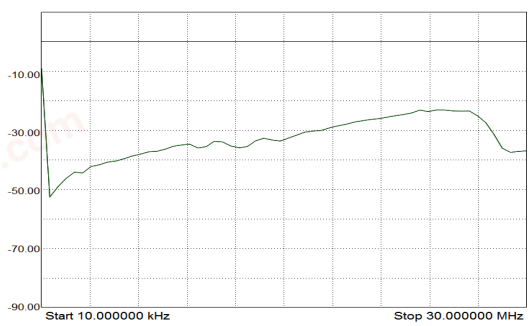
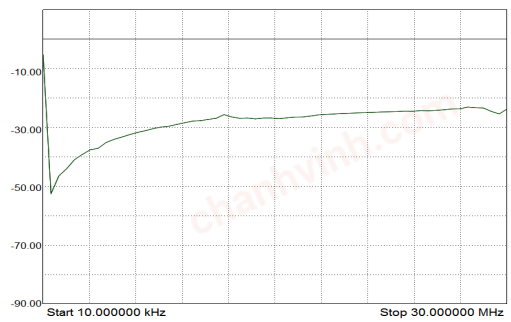
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Common Mode Insertion Loss (Typical in dB – refer to Table above)

6A	8 to 10A
	
16A	**25A**
	
36A	**50A**
	

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KEP SERIES

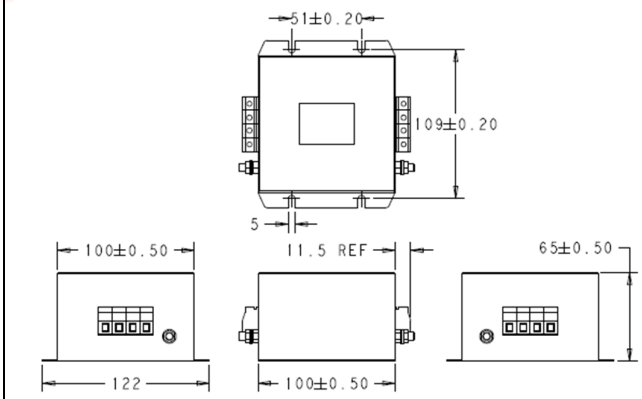
60A	75A
	
80A	**100A**
	
125A	**150A**
	
200A	**250A**
	

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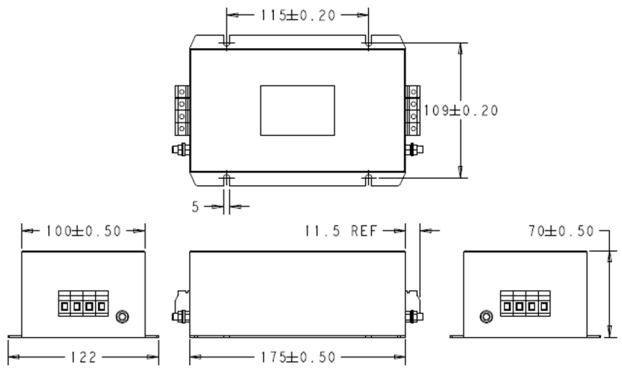
KEP SERIES

Case Dimensions

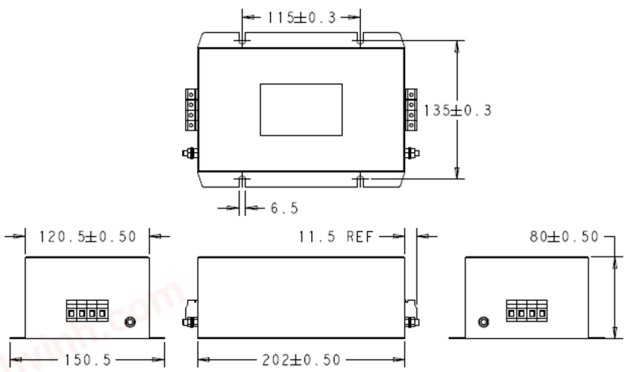
6A Shock Proof Type



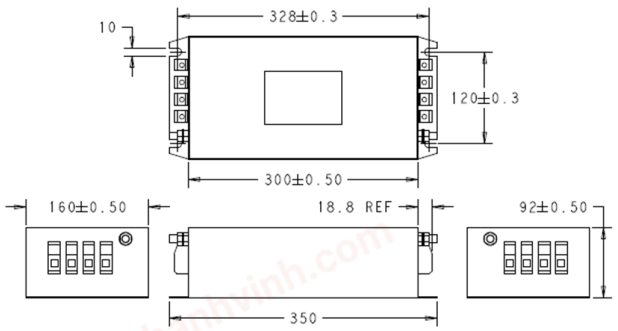
8A to 10A Shock Proof Types



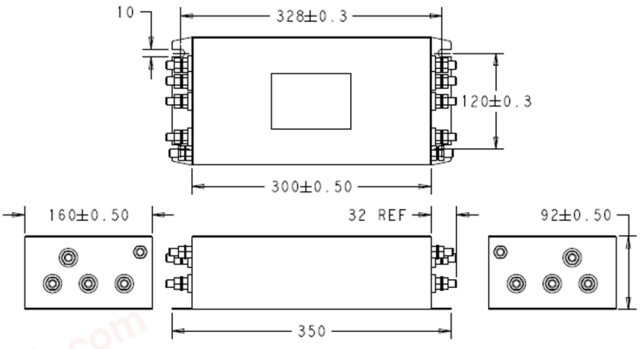
15A to 50A Shock Proof Types



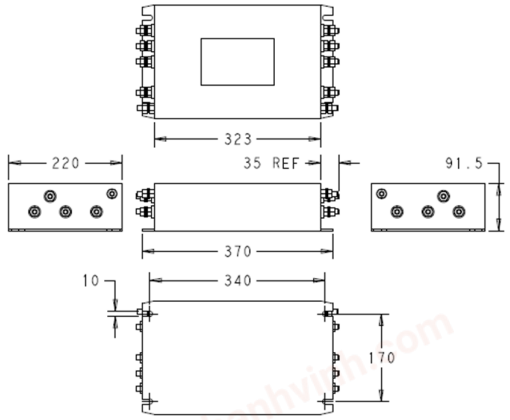
60A to 100A Shock Proof Types



125A to 150A Nut & Bolt Types



200A to 250A Nut & Bolt Types



All dimensions in mm; Tolerances according: ISO2768-m

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KEP SERIES

How to Order

