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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Two-stage General Purpose RFI Power Line Filter

R Series



UL Recognized CSA Certified VDE Approved



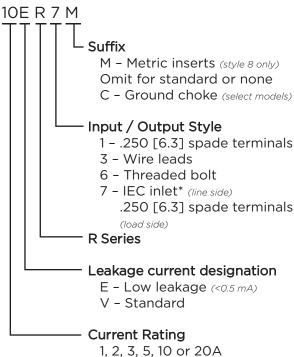
Catalog: 1654001

Issue Date: 06.2011

R Series

- Dual T section RFI filter provides premium performance
- Well suited for low impedance loads where noisy RFI environments are present
- Controls pulsed, continuous and/or intermittent interference
- ER models offer low leakage current without deterioration of insertion loss

Ordering Information



*IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each Line to Ground:

_	VR Models	ER Models
@120 VAC 60 Hz:	.4 mA	.21 mA
@250 VAC 50 Hz:	.7 mA	.36 mA
Hipot rating (one minute):		
Line to Ground:		2250 VDC
Line to Line:		1450 VDC

Rated Voltage (max): 250 VAC
Operating Frequency: 50/60 Hz

Rated Current: 1 to 20A

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Available Part Numbers

1VR1	1ER1
1VR3	1ER3
2VR1	2ER1
2VR3	2ER3
3VR1	3ER1
3VR3	3ER3
3VR7	3ER7
3VR7M	3ER7M
5VR1	5ER1
5VR3	5ER3
5VR7	5ER7
5VR7M	5ER7M
10VR1	10ER1
10VR3	10ER3
10VR6	10ER7
10VR7	10ER7M
10VR7M	20ER1
20VR1	
20VR6	

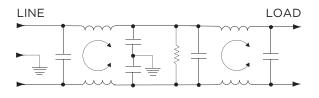


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Two-stage General Purpose RFI Power Line Filter (continued)

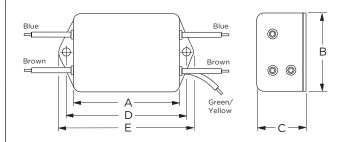
R Series

Electrical Schematic



Case Styles (continued)

R3

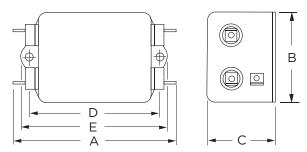


Typical Dimensions:

Wire Leads (5): Mounting Holes (2): 4.0 [*101.6*] Min., AWG18 .188 [4.78] Dia.

Case Styles

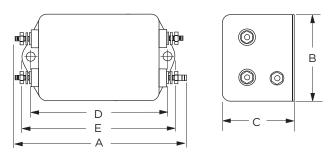
R1 (1, 2, 3, 5, 10A)



Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

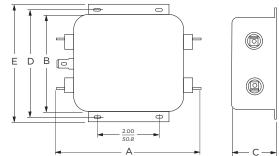
10VR6



Typical Dimensions:

Terminals (5): Mounting Holes (2): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .188 [4.78] Dia.

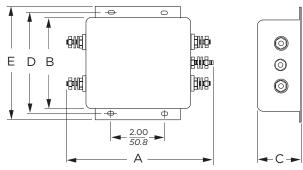
R1 (20A)



Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Slots (4): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .250 x .156 [6.35 x 3.96] Dia.

20VR6



Typical Dimensions:

Terminals (5): Mounting Slots (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .250 x .156 [6.35 x 3.96] Dia.

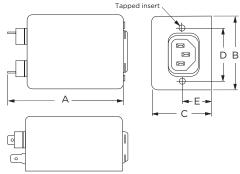
RFI Power Line Filters

Catalog: 1654001 Issue Date: 06.2011

Two-stage General Purpose RFI Power Line Filter (continued)

R Series

Case Styles (continued) R7 & R7M



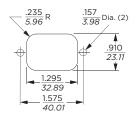
Typical Dimensions:

Load Terminals (2): Ground Terminal (1): Line Inlet (1): K7 Tapped Inserts (2):

K7M Tapped Inserts (2):

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot IEC 60320-1 C14 6-32 x 1/4 M3 x .5

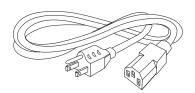
Recommended Panel Cutout



Tolerance ± .005 [0.13]

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



Case Dimensions

Part No.	Α	В	С	D	Е
rait NO.	(max)	(max)	(max)	± .015 ± .38	(max)
1VR1, 1ER1,	3.35	1.81	1.16	2.375	2.78
2VR1, 2ER1	85.1	46.0	29.5	60.33	70.6
1VR3, 1ER1,	2.07	1.81	1.16	2.375	2.78
2VR3, 2ER3	52.6	46.0	29.5	60.33	70.6
3VR1, 3ER1,	3.85	2.07	1.16	2.938	3.35
5VR1, 5ER1	97.8	52.6	29.5	74.63	85.1
3VR3, 3ER3,	2.56	2.07	1.16	2.938	3.35
5VR3, 5ER3	65.0	52.6	29.5	74.63	85.1
3VR7/7M,	4.33	2.25	1.28	1.575	0.64*
3ER7/7M	110.0	57.2	32.5	40.01	16.3*
5VR7/7M,	4.33	2.25	1.28	1.575	0.64*
5ER7/7M	110.0	57.2	32.5	40.01	16.3*
10VR1,	3.85	2.07	1.53	2.938	3.35
10ER1	97.8	52.6	38.9	74.63	85.1
10VR3,	2.56	2.07	1.53	2.938	3.35
10ER3	65.0	52.6	38.9	74.63	85.1
10VR6	3.96	2.07	1.53	2.938	3.35
IOVRO	100.6	52.6	38.9	74.63	85.1
10VR7/7M,	4.33	2.25	1.53	1.575	0.88*
10ER7/7M	110.0	57.2	38.9	40.01	22.4*
20VR1,	5.23	3.37	1.53	3.75	4.20
20ER1	132.8	85.6	38.9	95.25	106.7
20VR6	5.34	3.37	1.53	3.75	4.20
20 V KU	135.6	85.6	38.9	95.25	406.7
					*+0.02 [0.5]

*±0.02 [0.5]



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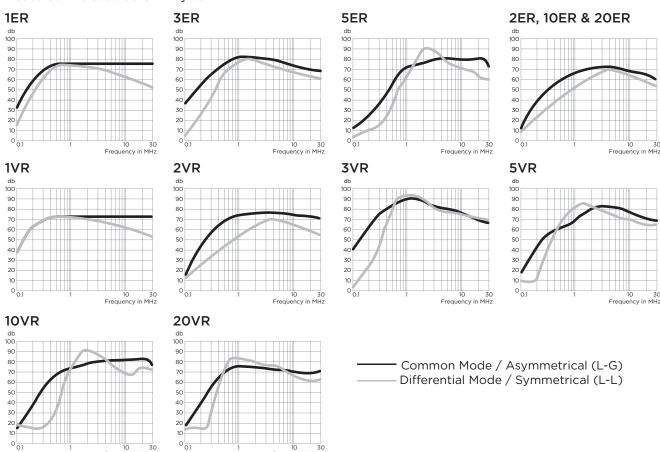
Two-stage General Purpose RFI Power Line Filter (continued)

R Series

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz					
Rating	.15	.5	1	5	10	30
VR Models						
1A, 3A	30	65	65	65	65	65
2A, 5A, 10A, 20A	5	44	60	65	65	60
ER Models						
1A, 3A	25	60	65	65	65	65
2A, 5A, 10A, 20A	2	35	51	63	60	50

Differential Mode / Symmetrical (Line to Line)

Current	Frequency – MHz					
Rating	.15	.5	1	5	10	30
VR Models						
1A, 3A	-	-	65	60	54	46
2A, 5A, 10A, 20A	-	-	35	60	57	45
ER Models						
1A, 3A	-	-	65	60	54	46
2A, 5A, 10A, 20A	-	-	35	60	57	45