Catalog: 1654001

Issue Date: 06.2011



Dual Stage RFI Power Line Filters for Switching Mode Power Supplies

EP / VP Series

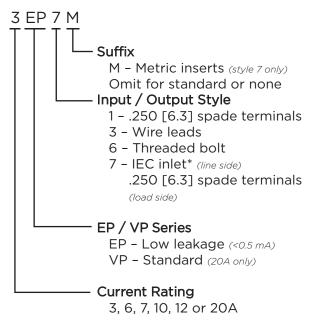


UL Recognized CSA Certified VDE Approved

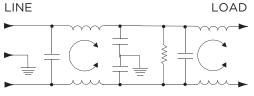
EP & VP Series

- Dual stage filter offers high insertion loss
- Well suited for meeting CISPR 22 A and FCC Part 15J, Class B
- EP model meets very low leakage current requirements
- 7A and 12A versions offer optimum package size

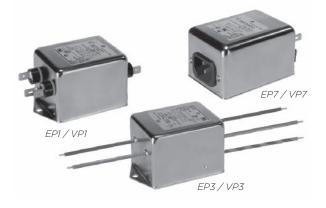
Ordering Information



Electrical Schematic



*IEC 60320-1 C14 inlet mates with C13 connector



Specifications

Maximum leakage current each Line to Ground:

	<u>vP Models</u>	EP Models
@ 120 VAC 60 Hz:	.73 mA	.21 mA
@250 VAC 50 Hz:	1.27 mA	.36 mA
Hipot rating (one minute)	:	
Line to Ground:		2250 VDC

Line to Ground.

Line to Line:

1450 VDC

Rated Voltage (max):

250 VAC

Operating Frequency:

50/60 Hz

Rated Current: 3 to 20A

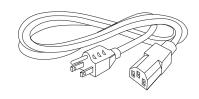
Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Available Part Numbers

3EP1	10EP1
3EP3	10EP3
3EP7	12EP1
3EP7M	12EP3
6EP1	20EP1
6EP3	20EP6
7EP1	20VP1
7EP3	20VP6

Accessories

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





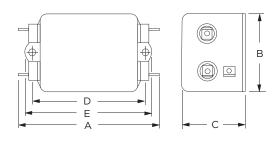
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Dual Stage RFI Filters for Switching Power Supplies (continued)

EP / VP Series

Case Styles

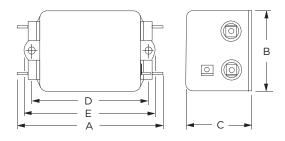
EP1 / VP1 (1-15A)



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.

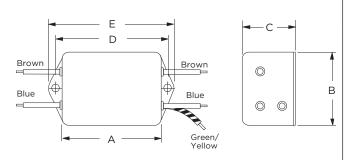
20EP1 / VP1



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.

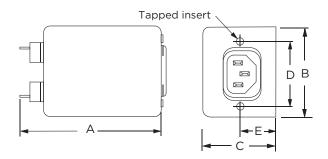
EP3



Typical Dimensions:

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

EP7 & EP7M

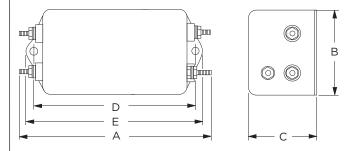


Typical Dimensions:

Load Terminals (2): .250 [6.3] with .07 [1.8] Dia. hole Line Inlet (1): IEC 60320-1 C14

EP7 Tapped Inserts (2): 6-32 x 1/4 EP7M Tapped Inserts (2): M3 x .5

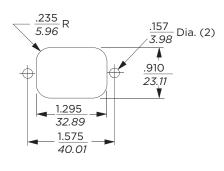
20EP6 / VP6



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.

Recommended Panel Cutout



Tolerance $\pm .005$ [0.13]

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EP / VP Series

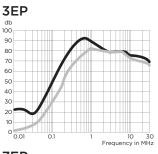
Case Dimensions

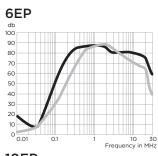
Doub No.	Α	В	С	D	Е
Part No.	(max)	(max)	(max)	± .015 ± .38	(max)
7ED1	3.85	2.07	1.78	2.938	3.35
3EP1	97.8	52.6	45.2	74.63	85.1
7507	2.56	2.07	1.78	2.938	3.35
3EP3	65.0	52.6	45.2	74.63	85.1
7ED7/7M	3.21	2.25	1.78	1.575	0.63*
3EP7/7M	81.5	57.2	45.2	40.01	12.1*
6EP1	6.62	2.07	2.28	5.625	6.03
DEPI	168.1	52.6	57.9	142.88	153.2
6FP3	5.33	2.07	2.28	5.625	6.03
6EP3	135.4	52.6	57.9	142.88	153.2
7FD1	4.79	2.07	1.53	3.947	4.33
7EP1	121.7	52.6	38.9	10.25	109.98
7507	3.50	2.07	1.53	3.947	4.33
7EP3	88.9	52.6	38.9	100.25	109.98
10FP1	6.62	2.07	2.78	5.625	6.03
IUEPI	168.1	52.6	70.6	142.88	153.2
10EP3	5.35	2.03	2.78	5.625	6.03
IUEPS	135.9	52.6	70.6	142.88	153.2
12EP1	4.97	1.78	1.78	4.063	4.46
IZEPI	126.2	45.2	45.2	103.20	113.28
1007	3.624	1.78	1.78	4.063	4.46
12EP3	92.05	45.2	45.2	103.20	113.28
20ED1/\/D1	4.95	1.8	1.8	4.063	4.47
20EP1/VP1	125.7	45.7	45.7	103.20	113.5
20ED6 /\/D6	5.09	1.78	1.78	4.063	4.46
20EP6/VP6	127.3	45.2	45.2	103.20	113.3
					*±0.02 [0.5]

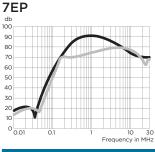
Performance Data

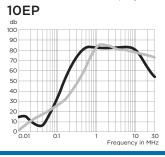
Typical Insertion Loss

Measured in closed 50 Ohm system

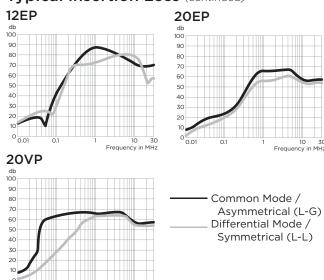








Typical Insertion Loss (continued)



Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz							
Rating	.01	.05	.15	.5	1	5	10	30
EP Models								
3A	12	10	58	65	65	66	62	30
6, 10A	10	15	60	65	65	65	60	35
7A	15	28	63	75	78	75	75	55
12A	12	7	52	68	70	70	70	45
20A	3	6	28	50	55	60	55	55

VP Models								
20A	3	2	42	60	65	65	55	55

Differential Mode / Symmetrical (Line to Line)

Current		Frequency – MHz						
Rating	.01	.05	.15	.5	1	5	10	30
EP Models								
3A	1	3	36	65	65	65	58	58
6, 10A	1	3	30	65	65	65	65	35
7A	10	13	55	65	68	70	65	50
12A	11	7	43	70	70	70	65	45
20A	8	25	60	65	65	58	58	58
VP Models								

20A 8 - 25 60 65 65 58 58

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)