imall

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Dual Stage RFI Power Line Filters for Switching Mode Power Supplies

EP / VP Series



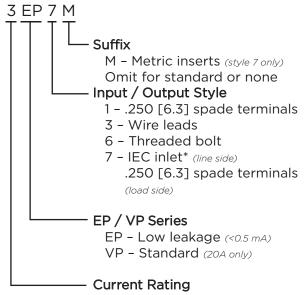
UL Recognized CSA Certified VDE Approved



EP & VP Series

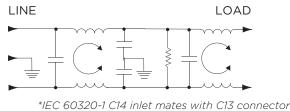
- Dual stage filter offers high insertion loss
- Well suited for meeting CISPR 22 A and FCC Part 15J, Class B
- EP model meets very low leakage current requirements
- 7A and 12A versions offer optimum package size

Ordering Information



3, 6, 7, 10, 12 or 20A

Electrical Schematic



Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.

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 Line:		1450 VDC
Rated Voltage (max):		250 VAC
Operating Frequency:		50/60 Hz
Rated Current:		3 to 20A
Operating Ambient Tempe	rature Range	
(at rated current I _r):	-1	0°C to +40°C
In an ambient temperat	ure (T _a) highe	er than +40°C

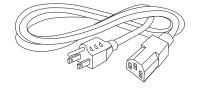
In an ambient temperature (I_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_0 = I_r \sqrt{(85-Ta)/45}$

Available Part Numbers

	1
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



For email, phone or live chat, please go to te.com/help corcom.com

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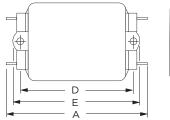


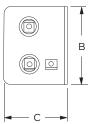
Dual Stage RFI Filters for Switching Power Supplies (continued)

EP / VP Series

Case Styles

EP1 / VP1 (1-15A)

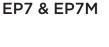


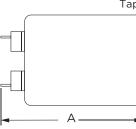


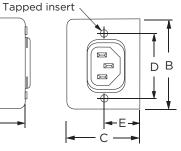
Typical Dimensions:

20EP1 / VP1

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.





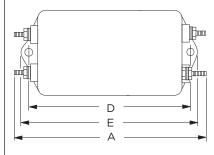


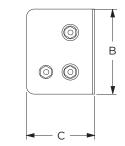
Typical Dimensions:

Load Terminals (2): Line Inlet (1): EP7 Tapped Inserts (2): EP7M Tapped Inserts (2):

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

20EP6 / VP6

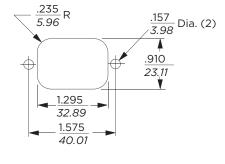




Typical Dimensions: Terminals (5): Mounting Holes (2):

8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .188 [4.78] Dia.

Recommended Panel Cutout



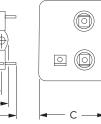
Tolerance ± .005 [0.13]



D

Е

А



.250 [6.3] with .07 [1.8] Dia. hole

.188 [4.78] Dia.

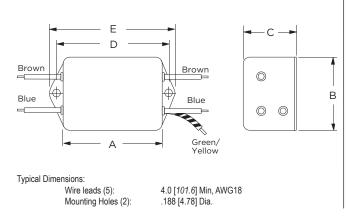
.250 [6.3] with .07 x .16 [1.8 x 3.8] slot

В

Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

EP3



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Dual Stage RFI Filters for Switching Power Supplies (continued)

EP / VP Series

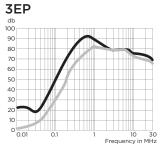
Case Dimensions

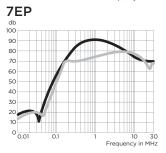
Dout No.	Α	В	С	D	Е
Part No.	(max)	(max)	(max)	<u>± .015</u> ± .38	(max)
7001	3.85	2.07	1.78	2.938	3.35
3EP1	97.8	52.6	45.2	74.63	85.1
3EP3	2.56	2.07	1.78	2.938	3.35
SEPS	65.0	52.6	45.2	74.63	85.1
3EP7/7M	3.21	2.25	1.78	1.575	0.63*
3EP // / M	81.5	57.2	45.2	40.01	12.1*
6EP1	6.62	2.07	2.28	5.625	6.03
OEPT	168.1	52.6	57.9	142.88	153.2
6EP3	5.33	2.07	2.28	5.625	6.03
02F3	135.4	52.6	57.9	142.88	153.2
7FP1	4.79	2.07	1.53	3.947	4.33
	121.7	52.6	38.9	10.25	109.98
7EP3	3.50	2.07	1.53	3.947	4.33
7LFJ	88.9	52.6	38.9	100.25	109.98
10EP1	6.62	2.07	2.78	5.625	6.03
	168.1	52.6	70.6	142.88	153.2
10EP3	5.35	2.03	2.78	5.625	6.03
	135.9	52.6	70.6	142.88	153.2
12EP1	4.97	1.78	1.78	4.063	4.46
	126.2	45.2	45.2	103.20	113.28
12EP3	3.624	1.78	1.78	4.063	4.46
IZEPJ	92.05	45.2	45.2	103.20	113.28
20EP1/VP1	4.95	1.8	1.8	4.063	4.47
	125.7	45.7	45.7	103.20	113.5
20EP6/VP6	5.09	1.78	1.78	4.063	4.46
ZUEPU/ VPO	127.3	45.2	45.2	103.20	113.3
					*±0.02 [0.5]

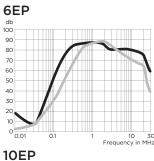
Performance Data

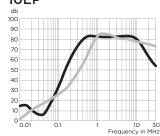
Typical Insertion Loss

Measured in closed 50 Ohm system



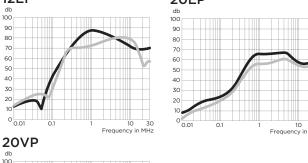


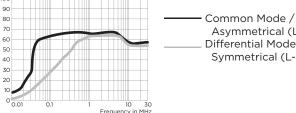




Frequer

Typical Insertion Loss (continued) 12EP 20EP





Asymmetrical (L-G) Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

		-						
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 Mo	ode /	Svm	metri	cal (L	ine t	o Lin	e)	

					-				
	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

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