

Catalog: 1654001 Issue Date: 06.2011

High Performance RFI Power Line Filters for Switching Power Supplies

T Series



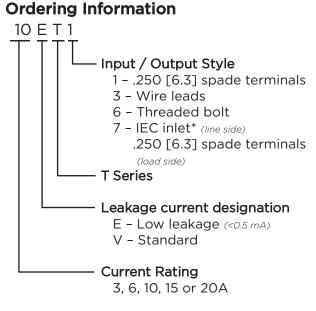
UL Recognized CSA Certified VDE Approved



T Series

- Superior common-mode and premium differential-mode attenuation
- Smaller package sizes than the EP Series
- Size and cost-effective
- ET models can help meet very low leakage current requirements

Ordering Information



*IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each Line to Ground:

<u>3, 6 & 10A</u>	ET Models	VT Models
@120 VAC 60 Hz:	.30 mA	.75 mA
@250 VAC 50 Hz:	.50 mA	1.2 mA
<u>15 & 20A</u>		
@120 VAC 60 Hz:	.30 mA	1.2 mA
@250 VAC 50 Hz:	.50 mA	2.0 mA

Hipot rating (one minute):

Line to Ground: Line to Line:	2250 VDC 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

3ET1	10ET1	10VT1
3ET3	10ET3	10VT3
3ET7	15ET1	15VT1
6ET1	15ET6	15VT6
6ET3	20ET1	20VT1
6ET7	20ET6	20VT6

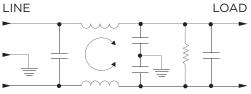


High Performance RFI Filters for Switching Power Supplies (continued)

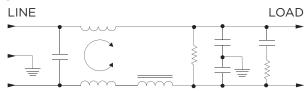
T Series

Electrical Schematics

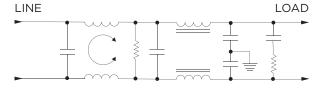




10A

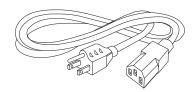


15 & 20A



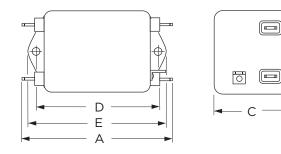
Accessories

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



Case Styles

T1 (3, 6, 10A)



Typical Dimensions:

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

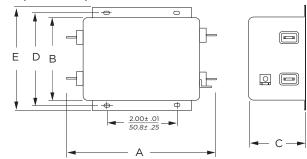
.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

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В

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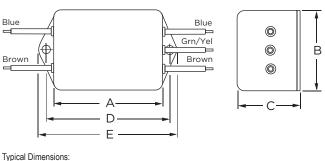




Typical Dimensions: Line/Load Terminals (4): Ground Terminal (1): Mounting Slots (4):

.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.

T3



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



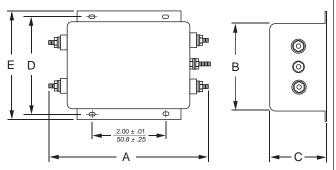
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T Series

Case Styles (continued)

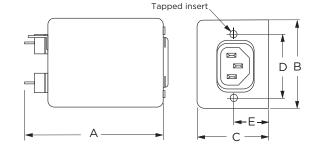
T6



Typical Dimensions:

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

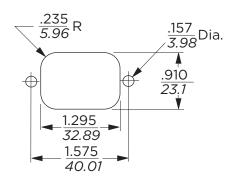
T7



Typical Dimensions:

Load Terminals (2): Ground Terminal (1): Line Inlet (1): 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

Recommended Panel Cutout



Tolerance ± .005 [0.13]

Case Dimensions

Part No.	Α	В	С	D + 015	Ε		
	(max)	(max)	(max)	± .015 ± .38	(max)		
3ET1, 6ET1	3.56	2.15	1.81	2.938	3.38		
	90.4	54.6	46.0	74.63	85.9		
3ET3, 6ET3	2.55	2.15	1.81	2.938	3.38		
3L13, 0L13	64.8	54.6	46.0	74.63	85.9		
3ET7, 6ET7	3.52	2.25	1.78	1.575	0.63*		
JL17, OL17	89.4	57.2	45.2	40.01	16.0°		
10ET1, 10VT1	4.69	2.27	1.80	4.063	4.47		
10L11, 10V11	119.1	57.7	45.7	103.2	113.5		
10ET3, 10VT3	3.69	2.27	1.80	40.63	4.47		
10213, 10 113	93.7	57.7	45.7	103.2	113.5		
15ET1, 15VT1,	5.45	3.12	2.18	3.5	3.96		
20ET1, 20VT1	138.4	79.2	55.4	88.9	100.6		
15ET6, 15VT6,	5.95	3.12	2.18	3.5	3.96		
20ET6, 20VT6	151.1	79.2	55.4	88.9	100.6		

*±0.02 [0.5]



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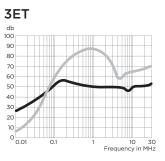
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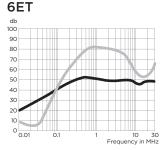
Performance Data

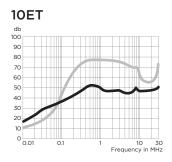
Typical Insertion Loss

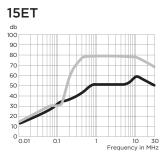
Measured in closed 50 Ohm system

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



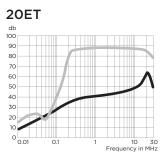


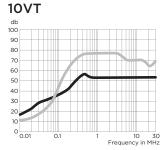


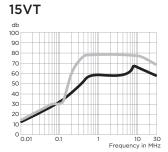


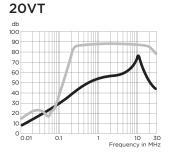
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Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Differential Mode / Symmetrical (Line to Line)

	Current	Frequency – MHz									Current Frequency – MHz							1Hz						
	Rating	.01	.03	.05	.15	.5	1	2	5	10	20	30	Rating	.01	.03	.05	.15	.5	1	2	5	10	20	30
E1	T Models												ET Models											
	3A	22	32	36	46	47	44	43	40	42	42	42	3A	3	1	30	61	70	70	70	50	50	50	55
	6A	16	26	30	41	47	44	43	43	40	42	42	6A	4	2	14	51	70	70	70	65	47	50	55
	10A	12	22	26	36	47	42	42	40	42	42	45	10A	7	12	17	52	70	70	70	65	55	50	60
	15A	8	17	22	31	43	44	44	42	47	52	43	15A	12	19	15	51	70	70	70	70	70	65	60
	20A	3	12	17	26	34	36	37	37	42	47	38	20A	10	17	13	51	70	70	70	70	67	65	60
٧	Γ Models												VT Models											
	10A	12	22	26	38	52	50	50	50	50	50	50	10A	7	12	17	52	70	70	70	65	65	50	65
	15A	8	17	22	33	52	52	52	52	57	45	35	15A	12	19	15	51	70	70	70	70	70	65	60
	20A	3	12	17	29	42	47	50	51	55	40	30	20A	10	17	13	51	70	70	70	70	67	65	60

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