

Catalog: 1654001 Issue Date: 06.2011

Medium Performance Compact EMI Power Inlet Filter

ED Series



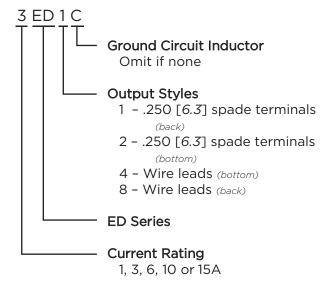
UL Recognized CSA Certified VDE Approved*



ED Series

- Two element circuit provides medium attenuation
- Available with an internal ground-circuit inductor (C versions) to isolate equipment chassis from power line ground at radio frequencies
- Versions up to 15A*
- Similar to EEJ Series with alternative termination options
- See the EC Series for better differential mode performance

Ordering Information



*15A versions are tested by Underwriters Laboratories to US and Canadian requirements and are VDE approved at 10A, 250VAC Note 1: C versions only

Specifications

Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz: .22 mA @250 VAC 50 Hz: .38 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 15A*

Operating Ambient Temperature Range

-10°C to +40°C (at rated current I_r): In an ambient temperature (Ta) higher than +40°C the maximum operating current (I_0) is calculated as follows: $I_0 = I_r \sqrt{(85-T_a)/45}$

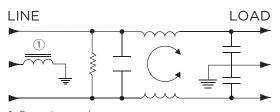
Available Part Numbers

1ED1	1ED2	1ED4	1ED8					
3ED1	3ED2	3ED4	3ED8					
6ED1	6ED2	6ED4	6ED8					
10ED1								
15ED1			15ED8					
Ground Circuit Inductor Versions								

Ground Circuit inductor versions

6ED1C	6ED4C	6ED8C
10ED1C		

Electrical Schematic



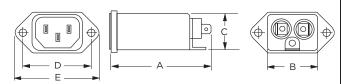


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Case Styles

ED1 & ED1C



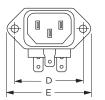
Typical Dimensions:

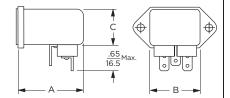
Mounting holes (2):

Line Inlet (1): Load Terminals (2): Ground Terminal (1): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C14

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

ED2



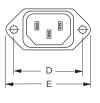


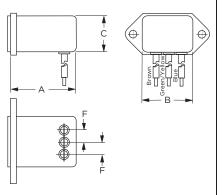
Typical Dimensions:

Mounting holes (2):

Line Inlet (1): Load Terminals (2): Ground Terminal (1): .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C14 .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot

ED4 & ED4C



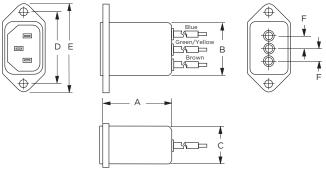


Typical Dimensions:

Mounting holes (2):

Line Inlet (1): Wire Leads: .132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw IEC 60320-1 C14 4.0 [101.6] Min., 18AWG, UL1015

ED8 & ED8C



Typical Dimensions:

Mounting holes (2):

.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw

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Line Inlet (1): Wire Leads: IEC 60320-1 C14 4.0 [101.6] Min., 18AWG, UL1015

Case Dimensions

Part No.	Α	В	С	D	Е	F
Fait No.	(max.)	(max.)	(max.)	± .015 ± .38	(max.)	(ref.)
1ED1, 3ED1,	2.21	1.19	0.81	1.575	1.98	_
6ED1	56.0	30.2	20.6	40.01	50.3	
1ED2, 3ED2,	1.55	1.19	0.85	1.575	1.98	_
6ED2	39.4	30.2	21.6	40.01	50.3	
1ED4, 3ED4,	1.55	1.19	0.85	1.575	1.98	.295
6ED4	39.4	30.2	21.6	40.01	50.3	7.5
1ED8, 3ED8,	1.55	1.19	0.81	1.575	1.98	.295
6ED8	39.4	30.2	20.06	40.01	50.3	7.5
6ED1C	2.62	1.19	0.81	1.575	1.98	_
OEDIC	66.5	30.2	20.6	40.01	50.3	
6ED4C	1.98	1.19	0.85	1.575	1.98	.295
0LD4C	50.3	30.2	21.6	40.01	50.3	7.5
6ED8C	1.98	1.19	0.81	1.575	1.98	.295
0LD6C	50.3	30.2	20.06	40.01	50.3	7.5
10ED1 /1C,	2.62	1.19	0.81	1.575	1.98	_
15ED1	66.5	30.2	20.6	40.01	50.3	
1550	1.98	1.19	0.81	1.575	1.98	_
15ED8	1.98	1.19	0.81	1.575	1.98	

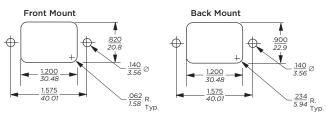


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Recommended Panel Cutouts

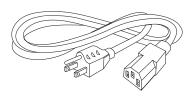


Tolerances ± .005 [0.13] unless otherwise noted

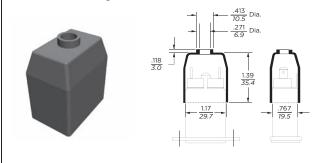
Note 1: ED1 and ED8 allow for front or back mounting Note 2: ED2 and ED4 allow for back mounting only

Accessories

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



FA601: Insulating Shroud

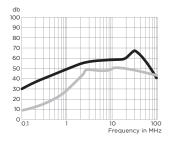


Performance Data

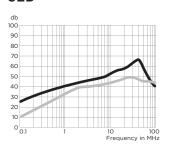
Typical Insertion Loss

Measured in closed 50 Ohm system

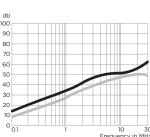




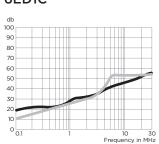
3ED



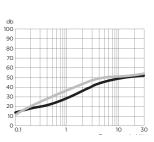
6ED



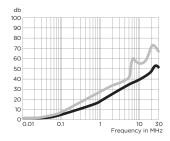
6ED1C



10ED1 & 10ED1C



15ED



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

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Performance Data (continued)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

Differential Mode / 9	Symmetrical ((Line to Line)
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common riode, risymmetrical (Eme to croama)					Emerenda Flode / Symmetrical (Eme to Eme)								
Current	Frequency - MHz					Current		Frequency – MHz					
Rating .	.15	.5	1	5	10	30	Rating	.15	.5	1	5	10	30
ED1, ED2, ED4 8	ED8						ED1, ED2, ED4 &	ED8					
1A	24	35	42	49	52	54	1A	3	15	20	37	37	36
3A	20	29	36	45	50	54	3A	3	15	20	37	37	36
6A	14	23	30	41	45	50	6A	3	15	20	31	35	34
10A	8	14	20	35	39	45	10A	6	15	20	23	44	47
15A	4	9	12	28	34	40	15A	6	18	23	33	44	47
ED1C							ED1C						
6A	14	20	25	37	42	50	6A	7	17	23	36	42	42
10A	8	14	20	35	39	45	10A	6	15	20	23	44	47
ED4C & ED8C							ED4C & ED8C						
6A	14	20	25	37	42	50	6A	7	17	23	29	38	42