ED Series

Highest Performance Compact RFI Power Line Filters with IEC Connectors

UL Recognized
CSA Certified
VDE Approved
SEV Approved*

ED Series

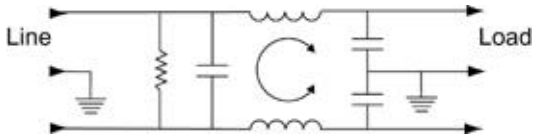
ED series filters are more effective than general-purpose filters in applications where line-to-line and low-frequency line-to-ground noise must be controlled; for example, to bring equipment into compliance with FCC conducted emissions standards.

The ED series offers significantly higher performance than comparably sized filters, especially at high frequencies, yet is in the EF series package which incorporates the IEC power line connector. Models ED1, ED1C, and ED2 have .250" terminals on load side; ED4, ED4C, ED8, and ED8C have wire leads.

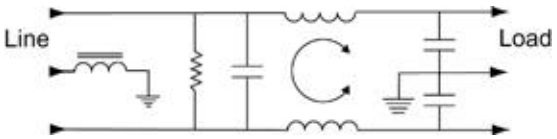
Models 6ED1C, 10ED1C, 6ED4C, and 6ED8C additionally incorporate a separate ground-circuit inductor to isolate the equipment chassis from power line ground at RF frequencies.

Electrical Schematics

ED Models



ED-C Models

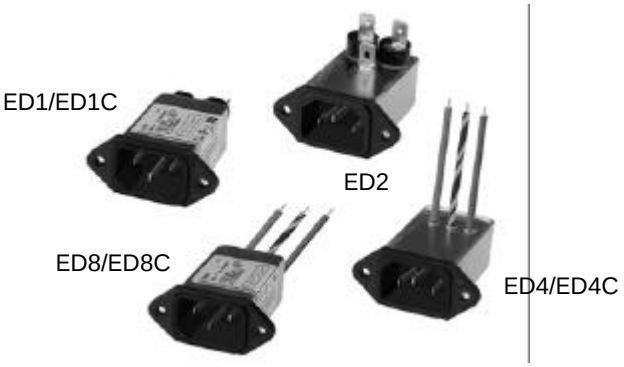


Resistor location for reference only.

Line Cord

Line Cord No. GA400:
7 1/2 foot, 3-conductor line cord to mate with ED series.

*Except all 10A and I5A models and styles ED4, ED4C, ED8, and ED8C.



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 1500 VAC
line-to-line 1450 VDC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

Minimum insertion loss in dB:
Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz .15	.5	1	5	10	30
ED1, ED2						
ED4, ED8						
1A	24	35	42	49	52	54
3A	20	29	36	45	50	54
6A	14	23	30	41	45	50
10A	8	14	20	35	39	45
15A	4	9	12	28	34	40
ED1C						
6A	14	20	25	37	42	50
10A	8	14	20	35	39	45
ED4C, ED8C						
6A	14	20	25	37	42	50

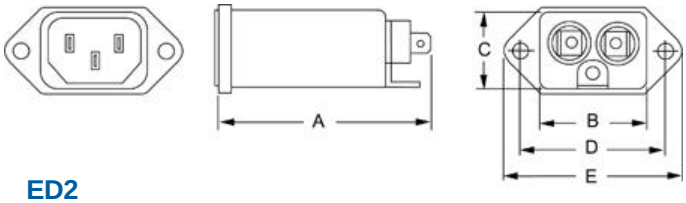
Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz .15	.5	1	5	10	30
ED1, ED2						
ED4, ED8						
1A	3	15	20	37	37	36
3A	3	15	20	37	37	36
6A	3	15	20	31	35	34
10A	8	20	25	38	44	47
15A	6	18	23	33	44	47
ED1C						
6A	7	17	23	36	42	42
10A	8	20	25	38	44	47
ED4C, ED8C						
6A	7	17	23	29	38	42

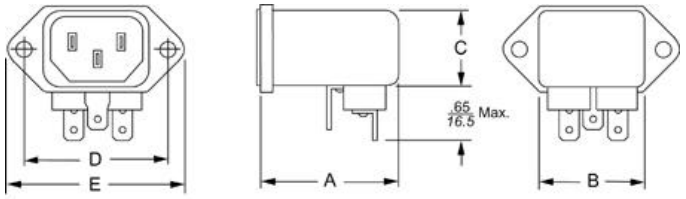
Case Styles

Metric shown in italics.

ED1 & ED1C



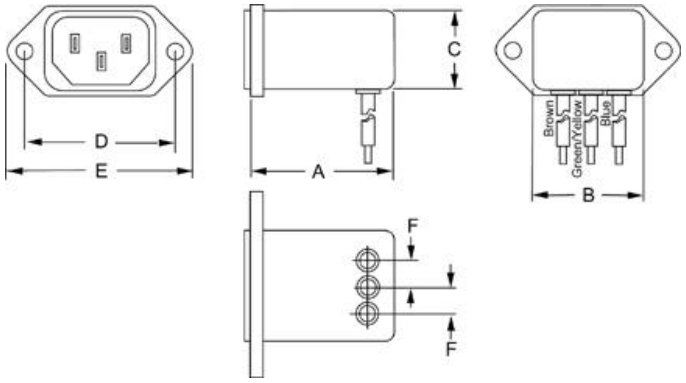
ED2



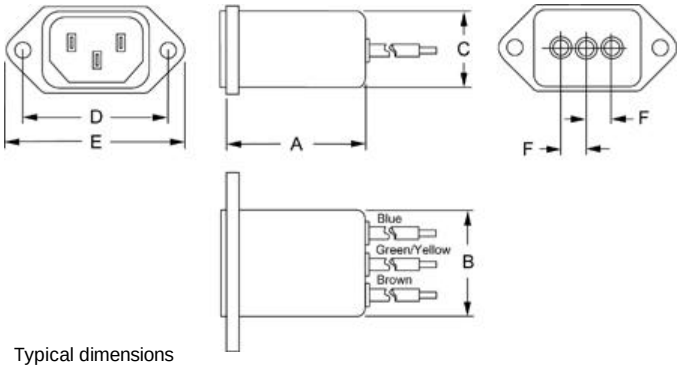
Typical dimensions

Terminals: .250 / 6.35 (3) Holes: .07 / 1.8 Dia.(2) Slots: .07 x .16 / 1.8 x 4.1

ED4 & ED4C



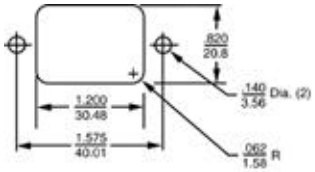
ED8 & ED8C



Typical dimensions

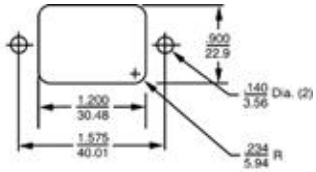
Wire leads: 4.0 / 101.6 Min. 18 AWG Mounting holes: .132 / 3.35 Dia.(2)

Recommended Panel Cutouts



Panel Cutout (front mount)

Tolerance ± .005 / 0.13



Panel Cutout (front mount)

Tolerance ± .005 / 0.13

Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D ± .015 / ± .38	E (max)	F (ref)
1ED1, 3ED3	2.21 / *56.0*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—
1ED2, 3ED2	1.55 / *39.4*	1.19 / *30.2*	0.85 / *21.6*	1.575 / *40.01*	1.98 / *50.3*	—
1ED4, 3ED4	1.55 / *39.4*	1.19 / *30.2*	0.85 / *21.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
1ED8, 3ED8	1.55 / *39.4*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
6ED1	2.21 / *56.0*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—
6ED1C	2.62 / *66.5*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—
6ED2	1.55 / *39.4*	1.19 / *30.2*	0.85 / *21.6*	1.575 / *40.01*	1.98 / *50.3*	—
6ED4	1.55 / *39.4*	1.19 / *30.2*	0.85 / *21.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
6ED4C	1.98 / *50.3*	1.19 / *30.2*	0.85 / *21.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
6ED8	1.55 / *39.4*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
6ED8C	1.98 / *50.3*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	.295 / *7.5*
10ED1, *15ED1	2.62 / *66.5*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—
10ED1C	2.62 / *66.5*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—
*15ED8	1.98 / *50.3*	1.19 / *30.2*	0.81 / *20.6*	1.575 / *40.01*	1.98 / *50.3*	—

Pricing

Consult your local Corcom sales representative for pricing.

Part No.	Part No.
1ED1	6ED2
1ED2	6ED4
1ED4	6ED4C
1ED8	6ED8
3ED1	6ED8C
3ED2	10ED1
3ED4	10ED1C
3ED8	15ED1
6ED1	15ED8
6ED1C	

Line Cord No. GA400
Insulating Boot No. FA601

*15 ED1, 15ED8
UL, CSA 15 Amps/250VAC
VDE 10 Amps/250VAC