Power Entry Modules with RFI Power Line Filter for General or Medical Applications

UL Recognized
CSA Certified
VDE Approved

L Series

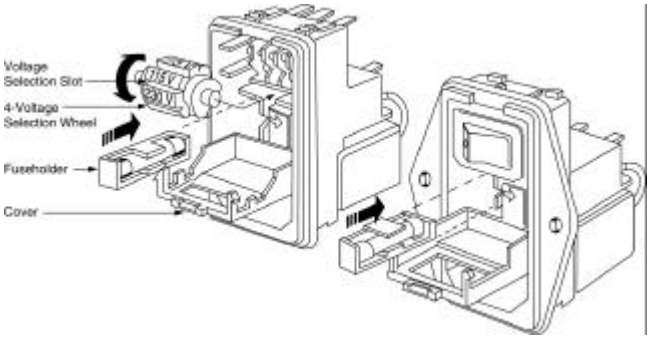
The L series power entry modules are compact units that combine a multi-function power entry module and high performance RFI filtering capabilities. They are available with either a four-voltage selector or a DPST on/off switch. Both variations can be specified with North American or European fusing capabilities and are available in either flange or snap-in mounting.

These filters are UL recognized, CSA certified, and VDE approved. The L series modules offer a choice of filters for general or medical applications.

EDL Models The RFI filter is for general purpose applications where line-to-line and line-to-ground noise must be controlled. The filter is designed to meet the very low leakage requirements of VDE portable equipment. They are available in three current ratings.

EHL Models This medical filter provides susceptibility protection without the leakage current associated with line-to-ground capacitors. Designed to allow equipment to meet UL544 for patient care and nonpatient care equipment, the EHL filter has a maximum leakage current of 2 µA at 120 VAC 60 Hz. See Appendix C for more information on medical applications and UL standards.

Voltage Selection



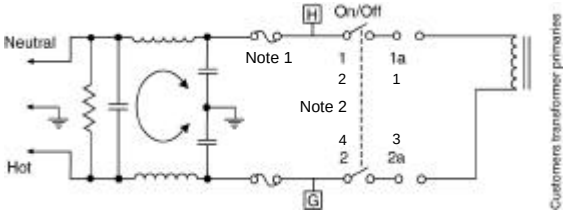
To change selected voltage: disconnect the power cord; open cover using a small blade screwdriver or similar tool; insert the tool into the voltage selection slot and remove wheel from unit; select desired voltage; replace wheel into unit and close cover, ***making sure the selected voltage appears in connector window.***

EDL1S/EHL1S

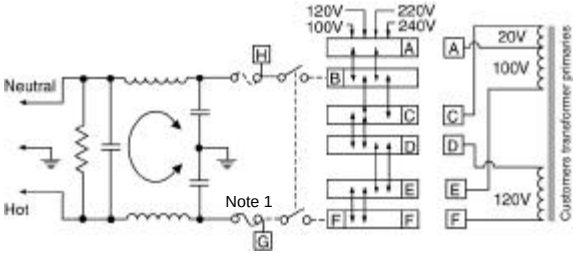
EDL4C/EHL4C

Electrical Schematics

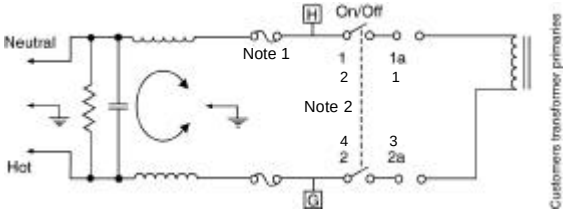
DL Models (with switch)



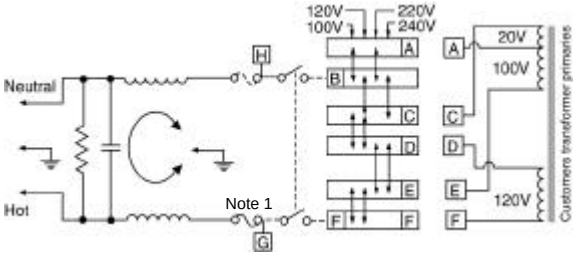
DL Models (with 4-voltage selection)



HL Models (with switch)



HL Models (with 4-voltage selection)



Resistor location for reference only.

NOTES: Note 1: Provision for dual European style fusing.
Note 2: On/Off switch present only with "S" suffix.

Specifications – Filtered

Maximum leakage current, each line-to-ground:

@ 120 VAC 60 Hz:	EDL Models	0.25 mA
	EHL Models	2 µA
@ 250 VAC 50 Hz:	EDL Models	0.50 mA
	EHL Models	5 µA

Hipot rating (one minute):

line-to-ground	EDL Models	1500 VAC
	EHL Models	1500 VAC
line-to-line	All Models	1450 VDC

Operating voltages:

1S_ & 1SC_ Models - Fixed	100, 120, 220, 240 VAC
4_ & 4C_ Models – Selectable	100, 120, 220, 240 VAC

Operating frequency: 50/60 Hz

Rated voltage: 120/250 VAC

Switch: (1S_ & 1SC_ models only) Rated for 10,000 operations at full load 51 Amp inrush capability

Fuse (not included): Accepts one 1/4" x 1-1/4" fuse or two 5 x 20mm fuses

Terminals: .110 (*2.79*) terminals except for switch. Switch terminals .187 (*4.8*).

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

Current Rating	Frequency-MHz .05	.15	1	5	10	30
EDL Models						
2A	6	14	24	40	45	50
4A	2	8	18	32	38	45
6A	1	6	17	31	37	45
EHL Models						
6A	3	8	15	18	18	18

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz .05	.15	1	3	5	10	30
EDL Models							
2A	7	16	21	23	37	47	50
4A	6	15	18	23	26	45	47
6A	6	15	20	25	25	45	50
EHL Models							
6A	4	14	20	28	32	38	42

Case Dimensions - Filtered

Metric shown in italics.

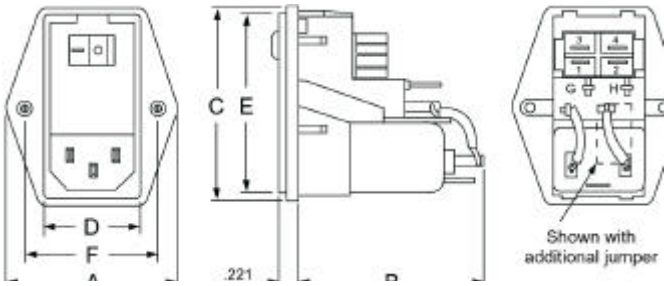
Part No.	A (max)	B (max)	C (max)	D +.008/-.00 *+.203/-.00*	E +.008/-.00 *+.203/-.00*	F ± .015 *± .038*
Flange Filtered	1.98 *50.3*	2.01 *51.1*	2.30 *58.4*	1.122 *28.50*	2.201 *55.91* †	1.575 *40.00*
Snap-in Filtered	1.28 32.5	2.01 51.1	2.30 58.4	1.122* 28.50	2.201 55.91 †	—

† For panel thickness of .031 - .079 *(0.8 - 2.0)*. For panel thickness of .083 - .114 *(2.1 - 2.9)* use 2.213 *(56.21)*.

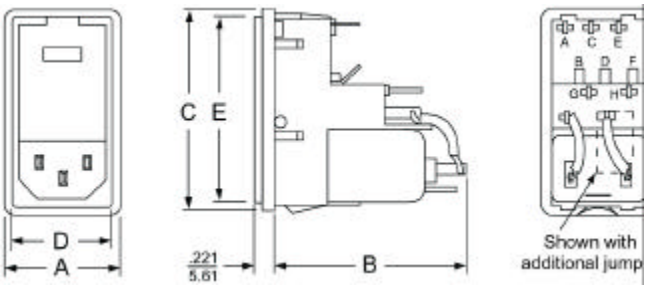
* For snap-in application, the D sides of the cutout must have a .02 *(.508)* radius on the installation side.

Case Styles - Filtered

Flange Models



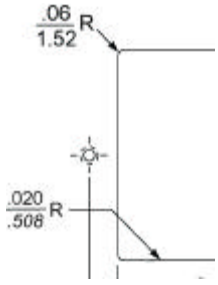
Snap-In Models



Metric fuse models have additional jumper from filter to module

Note: Snap-in models allow front mounting only.

Recommended Panel Cutout



Specifications – Unfiltered

Rated current:	6 Amp @ 120 VAC 6 Amp @ 250 VAC
Operating voltages:	
6EL1S & 6EL1SC Models–Fixed	100, 120, 200, 240 VAC
6EL4 & 6EL4C Models–Selectable	100, 120, 220, 240 VAC
Operating frequency:	50/60 Hz
Rated voltage:	120/250 VAC
Switch: (6EL1S & 6EL1SC models only)	Rated for 10,000 operations at full load 51 Amp inrush capability
Fuse (not included):	Accepts one 1/4" x 1-1/4" fuse or two 5 x 20mm fuses
Terminals:	.110 (*2.79*) terminals except for switch. Switch terminals .187 (*4.8*).

Case Dimensions - Unfiltered

Metric shown in italics.

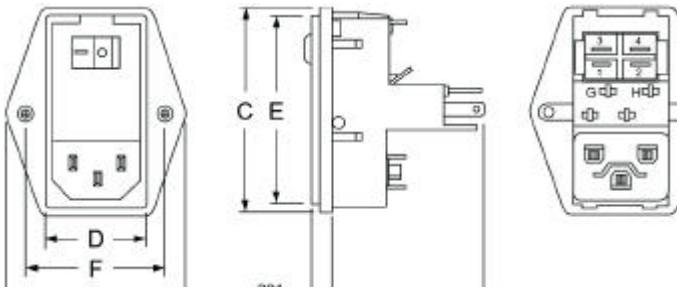
Part No.	A (max)	B (max)	C (max)	D +.008/-.00 *+.203/-.00*	E +.008/-.00 *+.203/-.00*	F ± .015 *± .038*
Flange Unfiltered	1.98 *50.3*	1.66 *42.2*	2.30 *58.4*	1.122 *28.50*	2.201 † *55.91*	1.575 *40.00*
Snap-in Unfiltered	1.28 32.5	1.66 42.2	2.30 58.4	1.122* 28.50	2.201 † 55.91	—

† For panel thickness of .031 - .079 *(0.8 - 2.0)*. For panel thickness of .083 - .114 *(2.1 - 2.9)* use 2.213 *(56.21)*.

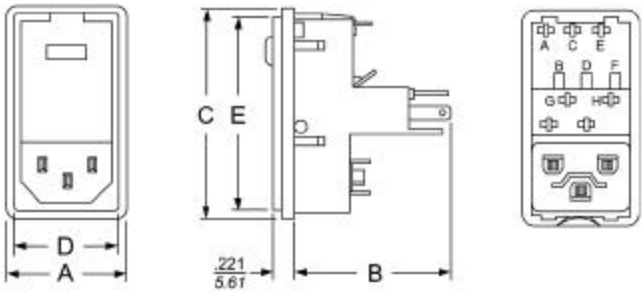
* For snap-in application, the D sides of the cutout must have a .02 *(.508)* radius on the installation side.

Case Styles - Unfiltered

Flange Models

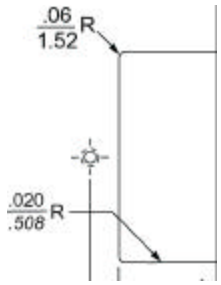


Snap-In Models



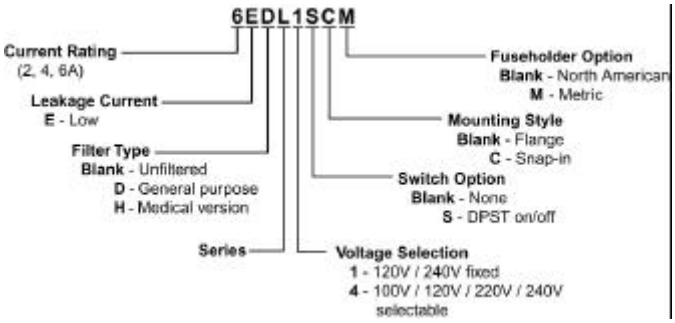
Note: Snap-in models allow front mounting only.

Recommended Panel Cutout



Ordering Information

Consult your local Corcom sales representative for pricing.



Available Part Numbers

Filtered		Unfiltered
2EDL1S	6EDL1S	6EL1S
2EDL1SC	6EDL1SC	6EL1SC
2EDL1SM	6EDL1SM	6EL1SM
2EDL1SCM	6EDL1SCM	6EL1SCM
2EDL4	6EDL4	6EL4
2EDL4C	6EDL4C	6EL4C
2EDL4M	6EDL4M	6EL4M
2EDL4CM	6EDL4CM	6EL4CM
4EDL1S	6EHL1S	
4EDL1SC	6EHL1SC	
4EDL1SM	6EHL1SM	
4EDL1SCM	6EHL1SCM	
4EDL4	6EHL4	
4EDL4C	6EHL4C	
4EDL4M	6EHL4M	
4EDL4CM	6EHL4CM	