

Voltage Selecting and Fused Connector with Optional RFI Power Line Filter for General Purpose Applications for UL544 Health Care Equipment

J Series



UL Recognized
CSA Certified



J Series

The most widely accepted of all the power entry modules, the J series combines an IEC connector, 2-voltage, or 4-voltage selection, and a North American fuseholder. It features a compact snap-in design and a unique voltage selector card.

J4 Models - This general purpose filter provides susceptibility protection from line-to-ground noise on the power line and acts as a high frequency "clean-up" filter for more complex emissions applications.

HJ4 Models - This medical filter provides susceptibility protection without the leakage current associated with line-to-ground capacitors. Designed to allow equipment to meet UL544 medical specifications for patient care and non-patient care equipment, the HJ filter has a maximum leakage current of 2µA at 120 VAC 60 Hz. See Appendix C for more information on medical applications and UL standards.

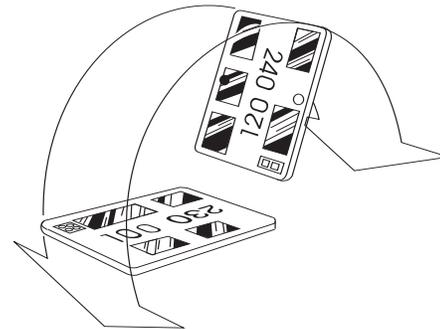
Equipment rating labels and mounting clips for thicker panel widths are available as accessories.

For more information on UL544 specifications, see Appendix C.

Note: When using the models with an IEC connector, remember that the leakage current of the companion line cord, GA400, is more significant than that of the filter - which may disqualify this line cord from use in patient care applications.

Voltage Selection

Unfiltered and Filtered Models



Open cover door and rotate fuse-pull lever to left. Select operating voltage by orienting voltage selection card, desired voltage on top left side. Push card firmly into module slot. Rotate fuse-pull lever back into normal position and re-insert fuse into holders. Use caution in selecting correct fuse value.

Unfiltered Models

Part Number	Available Voltage Selection Positions
6VJ1	4
6VJ1-2	2

Unfiltered Models

Part Number	Available Voltage Selection Positions	RFI Filter Type
6VJ4	4	General Purpose ¹
6J4-2	2	General Purpose ¹
6HJ4-4	4	Medical ²
6HJ4-2	2	Medical ²

Note 1: General purpose filter for susceptibility applications

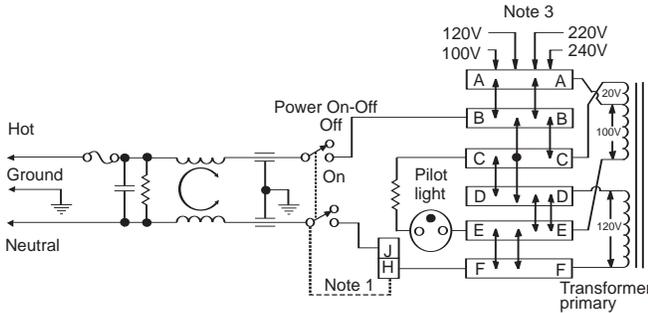
Note 2: Medical line filter for very low leakage UL544 health care requirements

Voltage Selecting and Fused Connector with Optional RFI Power Line Filter for General Purpose Applications for UL544 Health Care Equipment (Continued)

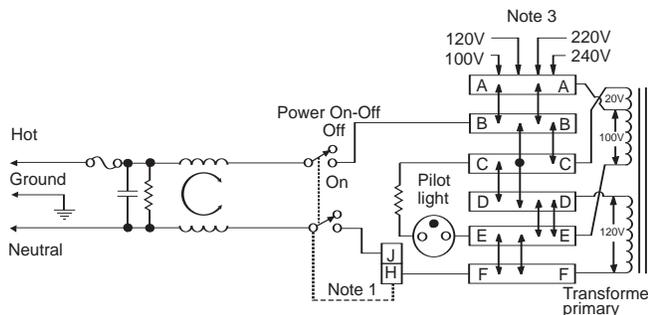
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Electrical Schematics

Filtered 6J4 & 6J4-2



Filtered 6HJ4-4 & 6HJ4-2



- Note 1: Jumper required if only SPST power switch is used.
- Note 2: Jumpers required if no input filtering is used.
- Note 3: Use only 120V and 240V positions for 2-volt selection units.

Specifications

Maximum leakage current, each line-to-ground:

	6J4	6EHJ4	6VJ
	Models	Models	Models
@250 VAC 50 Hz:	500 μ A	5 μ A	5 μ A

Hipot rating (one minute):

line-to-ground VDC	2250	2250	1550
line-to-line VAC	1450	1450	1450

Operating frequency:

50/60 Hz

Operating voltages:

6VJ1, 6J4, 6HJ4-4:	100, 120, 220, 240 VAC
6J1-2, 6J4-2, 6HJ4-2:	115, 230 VAC

Rated current:

6A

Fuse (not included):

Integral fuseholder, line side, accepts .25" x 1.25" fuse

Terminals:

Connector block terminals .045" square, suitable for soldering, wire wrapping, or crimp-on lugs

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

Current Rating	Frequency-MHz						
	.15	.5	1	5	10	20	30
J4 Models							
6A	9	20	25	41	45	45	48
HJ4 Models							
6A	9	11	15	19	13	12	10

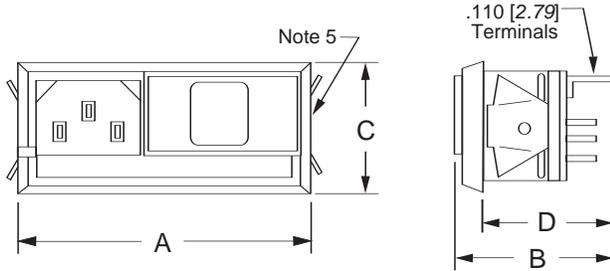
Power Entry Modules

Voltage Selecting and Fused Connector with Optional RFI Power Line Filter for
General Purpose Applications for UL544 Health Care Equipment (Continued)

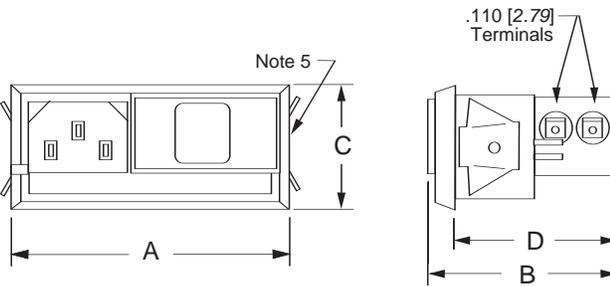
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Case Styles

Unfiltered Models



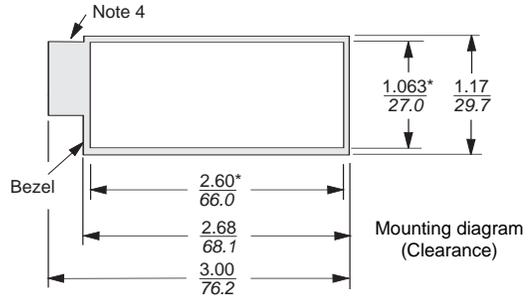
Filtered Models



Case Dimensions

Part No.	A (max)	B (max)	C (max)	D (max)
Unfiltered	2.68	1.52	1.17	1.23
6VJ1/6VJ1-2	68.1	38.6	29.7	31.2
Filtered	2.75	1.87	1.17	1.58
6J4/6J4-2	69.9	47.5	29.7	40.1
6HJ4-4/6HJ4-2	2.75	1.87	1.17	1.58
	69.9	47.5	29.7	40.1

Recommended Panel Cutout Unfiltered and Filtered Models



*±.003

Note 4: Fuse cover door shown in open condition.

Note 5: Standard units mount in panel thickness of .060 - .090"

Special mounting clips sold separately for panel thickness of .105-.125".

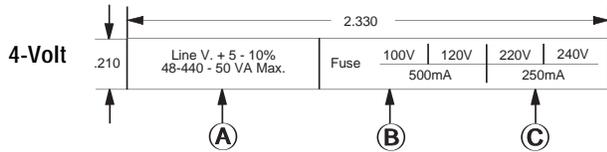
See Accessories List on next page.

Voltage Selecting and Fused Connector with Optional RFI Power Line Filter for General Purpose Applications for UL544 Health Care Equipment (Continued)

J Series

Equipment Rating Labels Unfiltered and Filtered Models

Self-adhesive labels, as shown below, are available in multiples of 40. Specify part number.



Part Number	A VA Max.	B Fuse 100/120 (115)	C Fuse 220/240 (230)
JA410	25	250 mA	125 mA
JA411	50	500 mA	250 mA
JA412	100	1A	500 mA
JA413	200	2A	1A
JA414	250	2.5A	1.25A
JA415	300	3A	1.5A
JA416	400	4 A	2A
JA417	500	5A	2.5A
JA418	600	6A	3A
JA419	Assortment		

JA410-JA418: 40 labels of one part number
JA419: 5 each JA410 - JA418 (45 labels)

Accessories Unfiltered and Filtered Models

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

JA302, 2 Voltage Selector Card
(comes standard with 6VJ1-2, 6J4-2, 6HJ4-2)

JA304, 4 Voltage Selector Card
(comes standard with 6VJ1, 6J4, 6HJ4-4)

JA403, Mounting Clips for .105-.125" Panel

JA500, Voltage Selector Card Extractor Tool