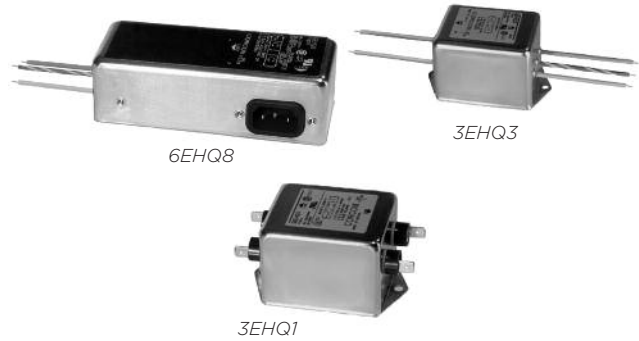


Highest Performance RFI Filters for Medical Equipment

HQ Series



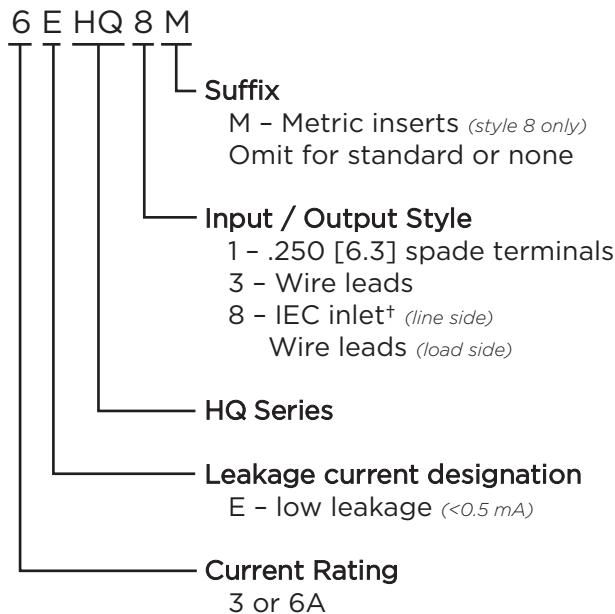
UL Recognized
CSA Certified
VDE Approved



HQ Series

- Designed to provide the highest available attenuation of RFI noise in the frequency range from 10KHz to 30MHz for low leakage current applications
- Size and cost effective

Ordering Information



* IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each line to ground:
 @ 120 VAC 60 Hz: 2 µA
 @ 250 VAC 50 Hz: 5 µA

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: 3 & 6A

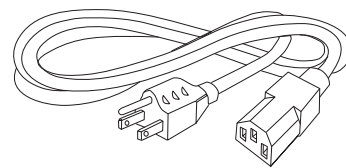
Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C
 In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_O) is calculated as follows: I_O = I_r √(85-T_a)/45

Available Part Numbers

3EHQ1	6EHQ1
3EHQ3	6EHQ3
3EHQ8	6EHQ8
3EHQ8M	3EHQ8M

Accessories

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

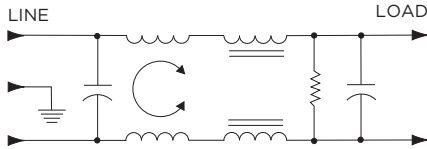


Highest Performance RFI Filters for Medical Equipment *(continued)*

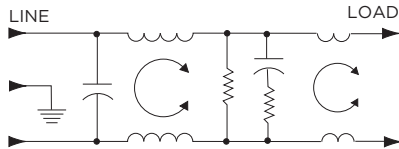
HQ Series

Electrical Schematics

3EHQ

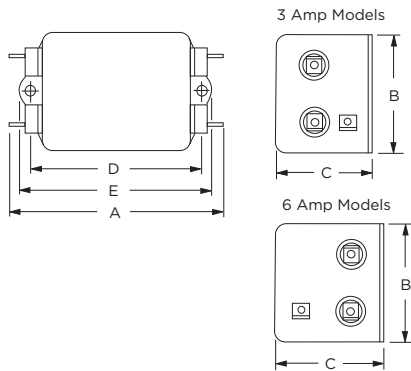


6EHQ



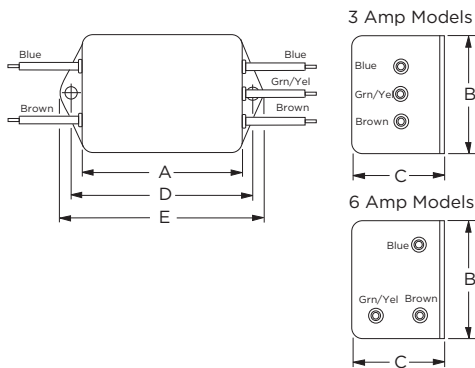
Case Styles

HQ1



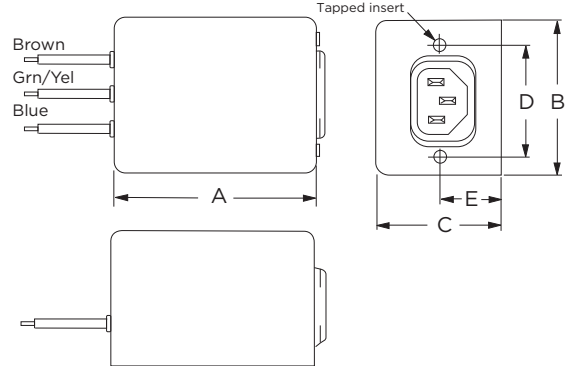
Typical Dimensions:
 Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
 Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
 Mounting Holes (2): .188 [4.78] Dia.

HQ3



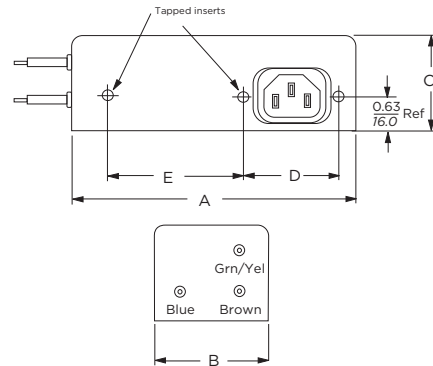
Typical Dimensions:
 Wire Leads (5): 4.0 [101.6] Min.
 Mounting Holes (2): .188 [4.78] Dia.

3EHQ8 & 3EHQ8M



Typical Dimensions:
 Wire Leads (3): 4.0 [101.6] Min.
 Line Inlet (1): IEC 60320-1 C14
 HQ8 Tapped Inserts (2): 6-32 x 1/4
 HQ8M Tapped Inserts (2): M3 x .5

6EHQ8 & 6EHQ8M

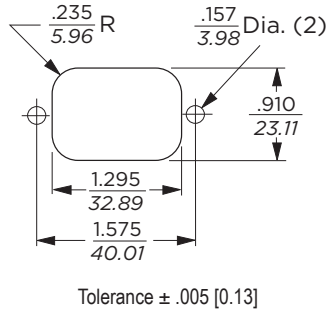


Typical Dimensions:
 Wire Leads (3): 4.0 [101.6] Min.
 Line Inlet (1): IEC 60320-1 C14
 HQ8 Tapped Inserts (2): 6-32 x 1/4
 HQ8M Tapped Inserts (2): M3 x .5

Highest Performance RFI Filters for Medical Equipment *(continued)*

HQ Series

Recommended Panel Cutout



Case Dimensions

Part. No.	A (max)	B (max)	C (max)	D $\pm .015$ $\pm .38$	E (max)
3EHQ1	3.85 <i>97.8</i>	2.07 <i>52.6</i>	1.78 <i>45.2</i>	2.938 <i>74.63</i>	3.34 <i>84.8</i>
3EHQ3	2.56 <i>65.0</i>	2.07 <i>52.6</i>	1.78 <i>45.2</i>	2.938 <i>74.63</i>	3.34 <i>84.8</i>
3EHQ8, 3EHQ8M	3.07 <i>78.0</i>	2.25 <i>57.2</i>	1.78 <i>45.2</i>	1.575 <i>40.01</i>	0.63† <i>16.0†</i>
6EHQ1	4.98 <i>126.5</i>	2.27 <i>57.7</i>	1.8 <i>45.7</i>	4.063 <i>103.2</i>	4.47 <i>113.5</i>
6EHQ2	3.69 <i>93.7</i>	2.27 <i>57.7</i>	1.8 <i>45.7</i>	4.063 <i>103.2</i>	4.47 <i>113.5</i>
6EHQ8, 6EHQ8M	5.47 <i>138.9</i>	2.07 <i>52.6</i>	1.78 <i>45.2</i>	1.575 <i>40.01</i>	2.7† <i>68.6†</i>

† ±0.02 [0.5]

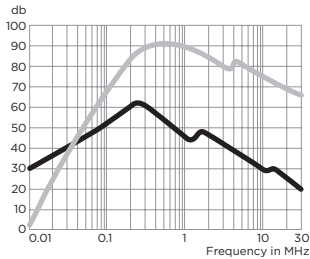
1
RFI Power Line Filters

Performance Data

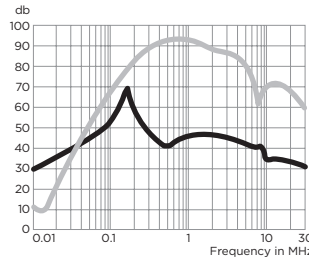
Typical Insertion Loss

Measured in closed 50 ohm system

3EHQ



6EHQ



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

Minimum Insertion Loss

Measured in closed 50 ohm system

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz											
	.01	.02	.05	.15	.5	1	2	5	7	10	20	30
3A	19	24	32	44	44	40	38	28	25	22	13	10
6A	24	29	39	42	28	35	36	30	30	24	16	15

Differential Mode / Symmetrical (Line to Line)

Current Rating	Frequency – MHz											
	.01	.02	.05	.15	.5	1	2	5	7	10	20	30
3A	1	18	43	68	75	75	72	70	66	65	60	60
6A	6	10	43	70	75	75	75	65	50	55	50	40