

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 μ A
 @ 250 VAC 50 Hz: 5 μ A

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

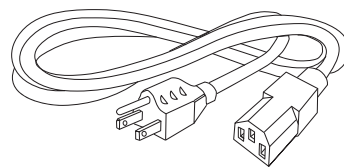
Operating Ambient Temperature Range (at rated current I_r): -10°C to +40°C
 In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

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



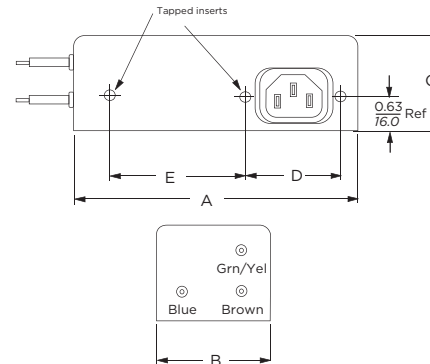
Typical Dimensions:
 Wire Leads (5): 4.0 [101.6] Min.
 Mounting Holes (2): .188 [4.78] Dia.

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 97.8	2.07 52.6	1.78 45.2	2.938 74.63	3.34 84.8
3EHQ3	2.56 65.0	2.07 52.6	1.78 45.2	2.938 74.63	3.34 84.8
3EHQ8, 3EHQ8M	3.07 78.0	2.25 57.2	1.78 45.2	1.575 40.01	0.63* 16.0*
6EHQ1	4.98 126.5	2.27 57.7	1.8 45.7	4.063 103.2	4.47 113.5
6EHQ3	3.69 93.7	2.27 57.7	1.8 45.7	4.063 103.2	4.47 113.5
6EHQ8, 6EHQ8M	5.47 138.9	2.07 52.6	1.78 45.2	1.575 40.01	2.7* 68.6*

* ± 0.02 [0.5]

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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