Catalog: 1654001

Issue Date: 06.2011



Highest Performance RFI Filters for Medical Equipment

HQ Series

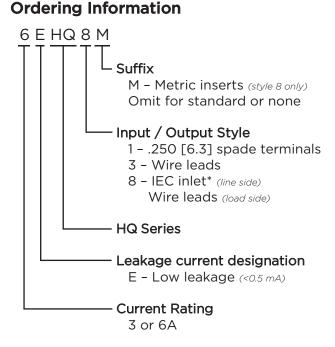


UL Recognized CSA Certified VDE Approved



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



*IEC 60320-1 C14 inlet mates with C13 connector

Specifications

Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz:@ 250 VAC 50 Hz:2 μA5 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

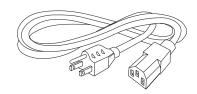
(at rated current I_r): -10°C to +40°C In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

Available Part Numbers

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

Accessories

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





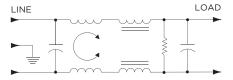
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Highest Performance RFI Filters for Medical Equipment (continued)

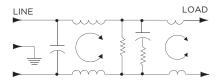
HQ Series

Electrical Schematics

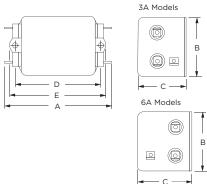
3EHQ



6EHQ



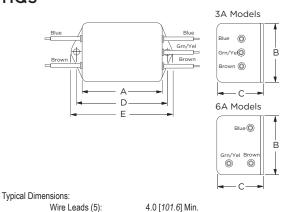
Case Styles HQ1



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.

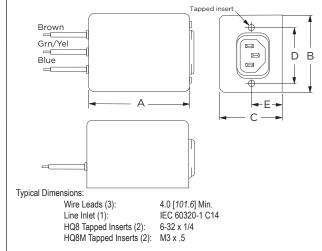
HQ3



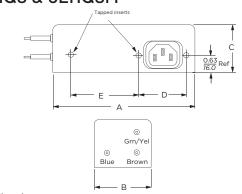
.188 [4.78] Dia.

Mounting Holes (2):

3EHQ8 & 3EHQ8M



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

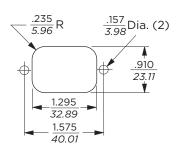
 HQ8M Tapped Inserts (2):
 M3 x .5



Highest Performance RFI Filters for Medical Equipment (continued)

HQ Series

Recommended Panel Cutout



Tolerance ± .005 [0.13]

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D ± .015 ± .38	E (max)
3EHQ1	3.85	2.07	1.78	2.938	3.34
SERQI	97.8	52.6	45.2	74.63	84.8
751107	2.56	2.07	1.78	2.938	3.34
3EHQ3	65.0	52.6	45.2	74.63	84.8
3EHQ8,	3.07	2.25	1.78	1.575	0.63*
3EHQ8M	78.0	57.2	45.2	40.01	16.0*
6EHQ1	4.98	2.27	1.8	4.063	4.47
OEHQI	126.5	57.7	45.7	103.2	113.5
6EHQ3	3.69	2.27	1.8	4.063	4.47
OEHQS	93.7	57.7	45.7	103.2	113.5
6EHQ8,	5.47	2.07	1.78	1.575	2.7*
6EHQ8M	138.9	52.6	45.2	40.01	68.6*

*±0.02 [0.5]

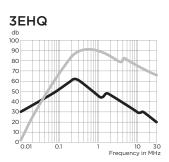
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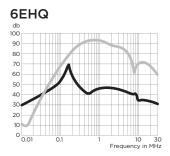
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Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system





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	Frequency – MHz											
	Rating	.01	.02	.05	.15	.5	1	2	5	7	10	20	30
Ī	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	Frequency - MHz											
Rating	.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