#### **Highest Performance RFI Filters for Medical Equipment**

HQ1

**Specifications** 

@ 120 VAC 60 Hz:

@ 250 VAC 50 Hz:

Maximum rated current peaks:

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

19 24 32

.01 .02 .05 .15 .5

39

Hipot rating (one minute):

line-to-ground

line-to-line

**Operating frequency:** 

Rated voltage (max.):

Rated current:

3EHQ

6EHQ

3EHQ

6EHQ

Current

Rating

3A

6A

## **HQ** Series

Electronics

<sup>£</sup> Tyco



**UL Recognized CSA** Certified **VDE** Approved



Maximum leakage current, each line-to-ground

#### **HQ** Series

The HQ series power line filters provide the highest available common-mode and differential-mode attenuation to RFI noise in the frequency range from 10kHz to 30MHz, for IEC 60601 and UL2601 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

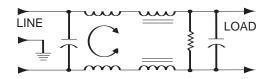
They are a size- and more cost-effective solution to the problem of meeting both medical leakage current limits and conducted emissions limits in equipment with high noise sources (such as switching power supplies). HQ series filters can help meet the following Conducted Emissions standards:

- European Normalized Standards based on EN55022, Level B
- FCC Part 15, Computing Devices, Class B.
- FCC Part 18, ISM Equipment, Industrial and Consumer.

For more information on UL2601, see Appendix C.

## **Electrical Schematics**

#### 3 Amp Models



#### 6 Amp Models



Resistor location for reference only.

Catalog 1654001 Revised 05-07

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 Germany: 49-89-6089-0

www.corcom.com www.tycoelectronics.com

2μΑ

5μΑ

2250 VDC

1450 VDC

50/60 Hz

250 VAC

3A

6A

10A

18A

5 7 10 20 30

40 38 28 25 22 13 10

42 28 35 36 30 30 24 16 15

Line-to-line in 50 ohm circuit

24 29

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

44 44

Frequency-MHz

1 2

## Line Cord

Line Cord No. GA400:

71/2 foot, 3-conductor line cord to mate with Q8 models.

68

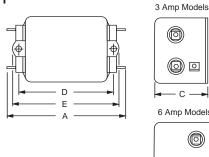
#### Highest Performance RFI Filters for Medical Equipment (Continued)

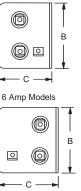
# **HQ** Series

₹ Tyco Electronics

**Case Styles** 

HQ1

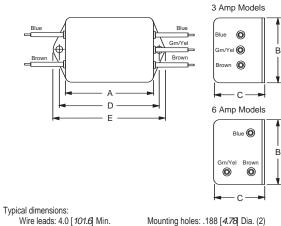




Typical dimensions:

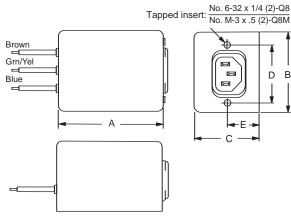
Cardinateriorito. Terminals: .250 [6.36] (5) Holes: .07 [1.6] Dia.(4) Slot: .07 x .16 [1.8 x 4.1] Mounting holes: .188 [4.78] Dia. (2)

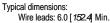
HQ3



Wire leads: 4.0 [ 101.6] Min.

3EHQ8 & 3EHQ8M (with metric insert)





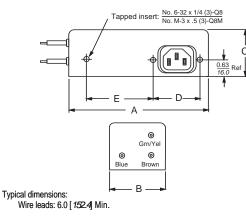
Catalog 1654001 Revised 05-07

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA Cust. Svc.: 1-800-468-2023 CORCOM Prods: 1-847-680-7400 49-89-6089-0 Germany:

6EHQ8 & 6EHQ8M (with metric insert)



## **Case Dimensions**

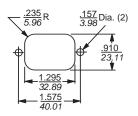
	Α	В	С	D	Е
Part No.	(max)	(max)	(max)	<u>±.015</u> ±.38	(max)
3EHQ1	3.85	2.07	1.78	2.938	3.34
	97.8	52.6	45.2	74.63	84.8
3EHQ3	2.56	2.07	1.78	2.938	3.34
	65.0	52.6	45.2	74.63	84.8
3EHQ8,	3.07	2.25	1.78	1.575	0.63
3EHQ8M	78.0	57.2	45.2	40.01	16.0 <sup>†</sup>
6EHQ1	4.98	2.27	1.8	4.063	4.47
	126.5	57.7	45.7	103.2	113.5
6EHQ3	3.69	2.27	1.8	4.063	4.47
	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

† ±.02 [±.5]

## Part Numbers

3EHQ8M 6EI	HQ1 HQ3 HQ8 HQ8M
Line Cord No. GA	400

## **Recommended Panel Cutouts**



Panel Cutout (back mount) Tolerance ±.005 [0.13]

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