

Highest Performance RFI Filters for Switching Power Supplies

Q Series



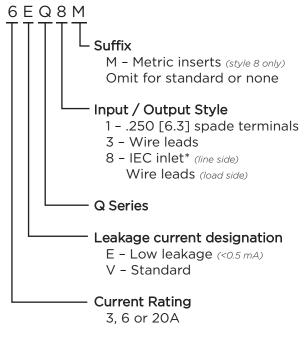
UL Recognized CSA Certified VDE Approved



Q Series

- Specifically developed for switching power supplies
- High attenuation for common and differential mode interference
- Effective from 10kHz to 30MHz
- Optimized for attenuation and size
- 3 or 6A versions available with IEC inlet

Ordering Information



Specifications

Maximum leakage current each Line to Ground:

<u>3 & 20A</u> @120 VAC 60 Hz: @250 VAC 50 Hz:	<u>VQ Models</u> .73 mA 1.27 mA	<u>EQ Models</u> .22 mA .38 mA
<u>6A</u> @120 VAC 60 Hz: @250 VAC 50 Hz:	=	.29 mA .51 mA
Hipot rating (one minute) Line to Ground: Line to Line:):	2250 VDC 1450 VDC
Rated Voltage (max):		250 VAC
Operating Frequency:		50/60 Hz
Rated Current:		3 to 20A
Operating Ambient Temp	erature Range	
(at rated current I _r):	-10	°C to +40°C
In an ambient tempera	ature (T _a) higher	r than +40°C

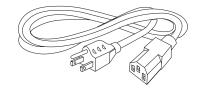
In an ambient temperature (T_a) higher than +40°C the maximum operating current (I₀) is calculated as follows: I₀ = I_r $\sqrt{(85-Ta)/45}$

Available Part Numbers

3EQ1	6EQ8M
3EQ3	20EQ1
3EQ8	3VQ1
3EQ8M	3VQ3
6EQ1	3VQ8
6EQ3	3VQ8M
6EQ8	20VQ1

Accessories

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



*IEC 60320-1 C14 inlet mates with C13 connector

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.

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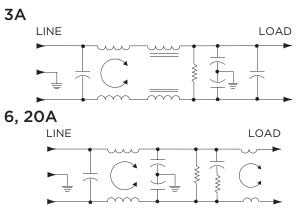


В

Highest Performance RFI Filters for Switching Power Supplies (continued)

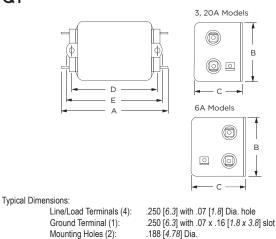
Q Series

Electrical Schematics

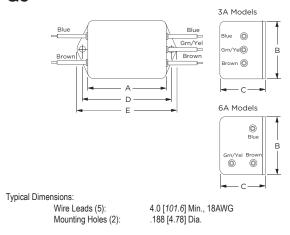


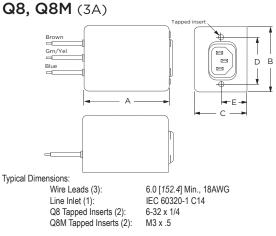
Case Styles

Q1

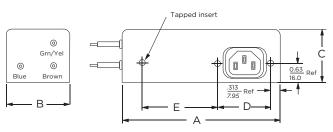


Q3









Typical Dimensions:

Wire Leads (3): Line Inlet (1): Q8 Tapped Inserts (3): Q8M Tapped Inserts (3):

6.0 [152.4] Min., 18AWG IEC 60320-1 C14 6-32 x 1/4 M3 x .5

Case Dimensions

Part No.	Α	В	С	D	E
Fart NO.	(max)	(max)	(max)	<u>± .015</u> ± .38	(max)
	3.85	2.07	1.78	2.938	3.34
3VQ1, 3EQ1	97.8	52.6	45.2	74.63	84.8
3VQ3, 3EQ3	2.56	2.07	1.78	2.938	3.34
3VQ3, 3EQ3	65.0	52.6	45.2	74.63	84.8
3VQ8/8M,	3.07	2.25	1.78	1.575	0.63*
3EQ8/8M	78.0	57.2	45.2	40.01	16.0*
6EQ1	4.98	2.27	1.80	4.063	4.47
DEGI	126.5	57.7	45.7	103.2	113.5
6EQ3	3.69	2.27	1.80	4.063	4.47
DEQS	93.7	57.7	45.7	103.2	113.5
6EQ8/8M	5.47	2.07	1.78	1.575	2.70
	138.9	52.6	45.2	40.01	68.0
20EQ1,	6.66	2.07	2.28	5.625	6.03 [*]
20VQ1	168.1	52.6	57.9	142.9	153.2*
					*±0.02 [0.5]

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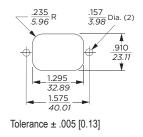
For email, phone or live chat, please go to te.com/help corcom.com



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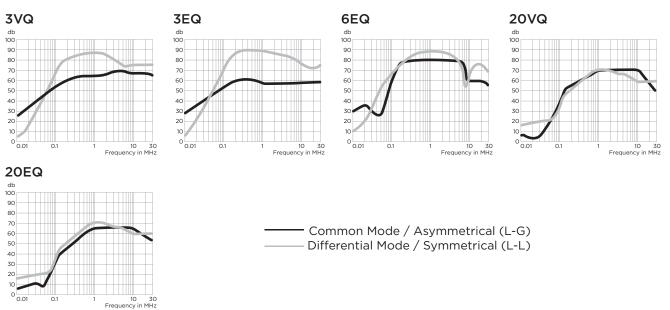
Recommended Panel Cutout



Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system



Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz								
Rating	.01	.02	.05	.15	.5	1	5	10	30
3VQ	22	27	37	50	55	55	55	50	55
3EQ	22	27	36	47	47	43	45	45	45
6EQ	26	31	20	68	72	72	65	65	65
20EQ	6	10	8	39	60	65	65	65	55
20VQ	6	3	17	52	65	70	70	70	70

Differential Mode / Symmetrical (Line to Line)

Current	Frequency – MHz								
Rating	.01	.02	.05	.15	.5	1	5	10	30
3VQ	1	17	42	65	75	75	60	65	65
3EQ	1	17	42	65	75	75	65	65	60
6EQ	6	10	43	70	75	75	65	55	55
20EQ	15	20	20	46	65	70	65	60	60
20VQ	15	20	20	46	65	70	65	60	60

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