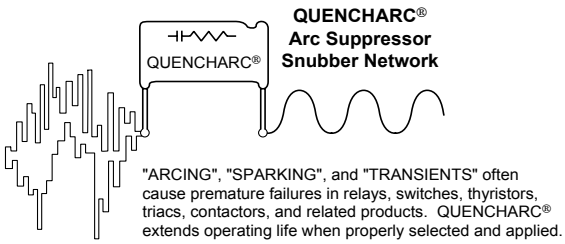
Type Q/QRL (Quencharc®) Arc Suppressor/Snubber Network

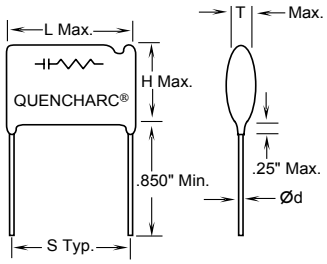
Radial Metallized Polyester RC Network for Transient Suppression



Highlights

- Noise and arc suppression
- RC Snubber Network
- Relay contact protection
- Noise reduction on controllers and drives
- EMI/RFI reduction
- dv/dt suppression
- Type QRL - UL/CSA verison
- Coated with flame retardant epoxy

Outline Dimensions



Specifications

Capacitance Range: 0.10 µF, 0.25 µF, 0.50 µF, 1.0 µF

Voltage Range: 200 Vdc/125 Vac, 60 Hz thru 1600 Vdc/660 Vac, 60 Hz

Capacitance Tolerance: ±20%

Resistor Tolerance: ±10%

Resistor Values: 22, 39, 47, 100, 150, 220, 330, 680 ohms

Operating Temperature Range : –55 ºC to +85 ºC at full rated voltage

Construction: Metallized polyester in series with a carbon composition resistor[1]

Dielectric Withstand Voltage: 1.6 x DC rated voltage @ +25 ºC

DC Life Test: 125% of rated voltage for a period of 500 hours at 85 ºC with capacitance change ≤5% and DF ≤ original limits

Long Term Stability: The capacitance shall not change more than 2% when stored at ambient temperature and humidity for a period of two years or less.

Datasheet.Support

RoHS Compliant

Ratings

Catalog Part Number	Cap (uF)	Resistor Ohms	Resistor Watts	Dimensions in Inches L Max	T Max	H Max	S Typ.	Ød$_c$ Typ.	Ød$_r$ Typ.	Dimensions in Millimeters L Max	T Max	H Max	S Typ.	Ød$_c$ Typ.	Ød$_r$ Typ.
200 Vdc / 125Vac															
504M02QA22	0.5	22	1/2	1.08	0.37	0.64	0.82	0.032	0.025	27.4	9.4	16.3	20.8	0.8	0.635
504M02QA47	0.5	47	1/2	1.08	0.37	0.64	0.82	0.032	0.025	27.4	9.4	16.3	20.8	0.8	0.635
504M02QA100	0.5	100	1/2	1.08	0.37	0.64	0.82	0.032	0.025	27.4	9.4	16.3	20.8	0.8	0.635
504M02QA220	0.5	220	1/2	1.08	0.37	0.64	0.82	0.032	0.025	27.4	9.4	16.3	20.8	0.8	0.635
105M02QB22	1.0	22	1/2	1.45	0.39	0.66	1.20	0.032	0.025	36.8	9.9	16.7	30.5	0.8	0.635
105M02QB47	1.0	47	1/2	1.45	0.39	0.66	1.20	0.032	0.025	36.8	9.9	16.7	30.5	0.8	0.635
600 Vdc / 250Vac															
104M06QC22	0.1	22	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635
104M06QC47	0.1	47	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635
104M06QC100	0.1	100	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635
104M06QC150	0.1	150	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635
104M06QC220	0.1	220	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635
104M06QC330	0.1	330	1/2	1.08	0.39	0.66	0.82	0.032	0.025	27.4	9.9	16.7	20.8	0.8	0.635

Type QRL: UL File No. E33628, CSA File No. LR32208

Type Q/QRL (Quencharc®) Arc Suppressor/Snubber Network

Ratings

Catalog Part Number	Cap (µF)	Resistor		Dimensions in Inches						Dimensions in Millimeters					
		Ohms	Watts	L Max	T Max	H Max	S Typ.	$Ød_c$ Typ.	$Ød_r$ Typ.	L Max	T Max	H Max	S Typ.	$Ød_c$ Typ.	$Ød_r$ Typ.
600 Vdc / 250Vac															
254M06QD22	0.25	22	1/2	1.45	0.42	0.75	1.20	0.032	0.025	36.8	10.6	19.0	30.5	0.8	0.635
254M06QD47	0.25	47	1/2	1.45	0.42	0.75	1.20	0.032	0.025	36.8	10.6	19.0	30.5	0.8	0.635
254M06QD100	0.25	100	1/2	1.45	0.42	0.75	1.20	0.032	0.025	36.8	10.6	19.0	30.5	0.8	0.635
254M06QD150	0.25	150	1/2	1.45	0.42	0.75	1.20	0.032	0.025	36.8	10.6	19.0	30.5	0.8	0.635
504M06QE22	0.5	22	1/2	1.45	0.59	0.92	1.20	0.032	0.025	36.8	15.0	23.4	30.5	0.8	0.635
504M06QE47	0.5	47	1/2	1.45	0.59	0.92	1.20	0.032	0.025	36.8	15.0	23.4	30.5	0.8	0.635
504M06QE100	0.5	100	1/2	1.45	0.59	0.92	1.20	0.032	0.025	36.8	15.0	23.4	30.5	0.8	0.635
504M06QE150	0.5	150	1/2	1.45	0.59	0.92	1.20	0.032	0.025	36.8	15.0	23.4	30.5	0.8	0.635
1200 Vdc / 480Vac															
104M48QH39	0.1	39	2	1.60	0.64	1.04	1.29	0.032	0.032	40.6	16.3	26.4	32.7	0.8	0.8
1600 Vdc / 660Vac															
104M66QV39	0.1	39	2	2.18	0.54	1	1.8	0.032	0.032	55.3	13.7	25.4	45.7	0.8	0.8
UL/CSA Recognized Across-the-Line Application Type QRL 125VAC Type QRL complies with UL1414/CSA-C22.2 No. 1															
104MACQRL150	0.1	150	1/2	1.08	0.44	0.66	0.82	0.032	0.025	27.4	11.18	16.7	20.8	0.8	0.635
104MACQRL680	0.1	680	1/2	1.08	0.44	0.66	0.82	0.032	0.025	27.4	11.18	16.7	20.8	0.8	0.635

Type QRL: UL File No. E33628, CSA File No. LR32208
[1] Two watt resistor is wire wound
Shaded items are stocked parts