

# 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
- ◆ Type QRL - UL/CSA verison
- ◆ Other ratings available by special request
- ◆ Coated with flame retardant epoxy

### Outline Dimensions



### Specifications

**Capacitance Range:** 0.10  $\mu$ F, 0.05  $\mu$ F, 1.0  $\mu$ F

**Voltage Range:** 200 Vdc/125 Vac, 60 Hz and 600 Vdc/250 Vac, 60 Hz

**Capacitance Tolerance:**  $\pm$ 20%

**Resistor Tolerance:**  $\pm$ 10%

**Resistor Values:** 22, 47, 100, 150, 220 ohms

**Operating Temperature Range :**  $-55^{\circ}$ C to  $+85^{\circ}$ C at full rated voltage

**Construction:** Metallized polyester in series with a carbon composition resistor

**Dielectric Withstand Voltage:** 1.6 x DC rated voltage @  $+25^{\circ}$ C

**DC Life Test:** 125% of rated voltage for a period of 500 hours at  $85^{\circ}$ C with capacitance change  $\leq$ 5% and DF  $\leq$  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.

### Ratings

### RoHS Compliant

Catalog Part Number	Cap ( $\mu$ F)	Resistor		Inches					Millimeters				
		Watts	Ohms $\pm$ 10%	L Max	T Max	H Max	S Typ.	$\phi$ d	L Max	T Max	H Max	S Typ.	$\phi$ d
<b>200 Vdc / 125 Vac</b>													
504M02QA100	0.50	1/2	100	1.08	0.37	0.64	0.82	0.032	27.4	9.4	16.3	20.8	0.8
504M02QA220	0.50	1/2	220	1.08	0.37	0.64	0.82	0.032	27.4	9.4	16.3	20.8	0.8
105M02QB47	1.00	1/2	47	1.45	0.39	0.66	1.20	0.032	36.8	9.9	16.8	30.5	0.8
<b>600 Vdc / 250 Vac</b>													
104M06QC22	0.10	1/2	22	1.08	0.39	0.66	0.82	0.032	27.4	9.9	16.8	20.8	0.8
104M06QC47	0.10	1/2	47	1.08	0.39	0.66	0.82	0.032	27.4	9.9	16.8	20.8	0.8
104M06QC100	0.10	1/2	100	1.08	0.39	0.66	0.82	0.032	27.4	9.9	16.8	20.8	0.8
104M06QC150	0.10	1/2	150	1.08	0.39	0.66	0.82	0.032	27.4	9.9	16.8	20.8	0.8
<b>UL/CSA Recognized Across-the-Line Application Type QRL 125 Vac Complies with UL1414/CSA-C22.2 No. 1)</b>													
104MACQRL150	0.10	1/2	150	1.08	0.44	0.66	0.82	0.032	27.4	11.2	16.8	20.8	0.8

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