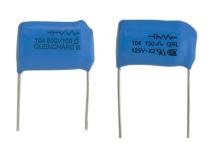
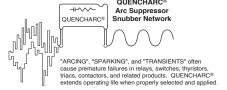
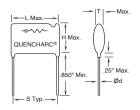
Type Q/QRL (Quencharc®) Arc Suppressor/Snubber Network

Radial Metallized Polyester RC Network for Transient Suppression





Outline Dimensions



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
- ♦ Halogen-free (date codes 1807 and after)

Specifications

Capacitance Range	0.10 μF, 0.25 μF, 0.50 μF, 1.0 μF									
Capacitance Tolerance	±20%									
Rated Voltage	200 Vdc/125 Vac, 60 Hz thru 1600 Vdc/660 Vac, 60 Hz									
Resistor Tolerance	±10%									
Resistor Values 22, 39, 47, 100, 150, 220, 330, 680 ohms										
Operating Temperature Range	–55 °C to +85 °C at full rated voltage									
Construction	Metallized polyester in series with a carbon composition resistor1									
Dielectric Withstand Voltage	1.6 x DC rated voltage @ +25 °C									
DC Life Test 125% of rated voltage for a period of 500 hours at 85 °C 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.									
Regulatory Information										

Ratings

		Resistor		Dimensions in Inches							Dimensions in Millimeters					
Catalog Cap Part Number (uF)			W-44-	L	Т	Н	S	Ød _c	Ød _,	L	Т	Н	S	Ød _c	Ød _,	
	(41)	Onms	ns Watts	Max	Max	Max	Тур.	Тур.	Тур.	Max	Max	Max	Тур.	Тур.	Тур.	
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	8.0	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	8.0	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 Cap Part Number (μF)		Resistor		Dimensions in Inches						Dimensions in Millimeters					
			L	Т	Н	S	Ød _c	Ød,	L	Т	Н	S	Ød _c	Ød,	
	u.	Ohms Watts		Max	Max	Max	Тур.	Тур.	Тур.	Max	Max	Max	Тур.	Тур.	Тур.
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	8.0	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
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

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¹Two watt resistor is wire wound Shaded items are stocked parts