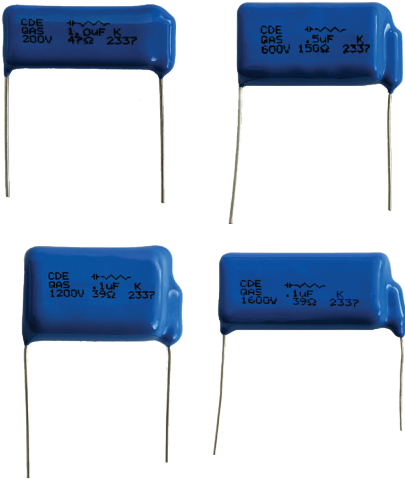


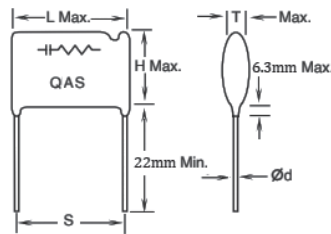
# Type QAS, Arc Suppressor/Snubber Network

## Radial Metallized Polyester RC Network for Transient Suppression



Type QAS will extend the operating life of electronic and electro-mechanical devices by reducing and/or eliminating the electrical arcing, noise, and EMF. These electrical conditions often cause early failures in relays, switch contacts, and solid-state components such as SCRs and TRIACs.

### 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
- Coated with flame retardant epoxy

### Specifications

Capacitance Range	0.10 $\mu$ F, 0.25 $\mu$ F, 0.50 $\mu$ F, 1.0 $\mu$ F
Capacitance Tolerance	$\pm 10\%$
Rated Voltage	200 Vdc/125 Vac, 60 Hz thru 1600 Vdc/660 Vac, 60 Hz
Resistor Tolerance	$\pm 10\%$
Resistor Values	22, 39, 47, 100, 150, 220, 330, 680 ohms
Operating Temperature Range	$-55\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ at full rated voltage
Construction	Metallized polyester in series with a anti-surge resistor
Dielectric Withstand Voltage	1.6 x DC rated voltage @ $+25\text{ }^{\circ}\text{C}$
DC Life Test	125% of rated voltage for a period of 500 hours at $85\text{ }^{\circ}\text{C}$ 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
<a href="#">Regulatory Information</a>	

### Part Numbering System

QAS	104	K	600	D	022
Type	Capacitance	Capacitance Tolerance	Voltage Code	Case Type	Resistance
	104 = 0.1 $\mu$ F	K = $\pm 10\%$	200 = 200 Vdc		022 = 22 $\Omega$
	254 = 0.25 $\mu$ F		600 = 600 Vdc		150 = 150 $\Omega$
	504 = 0.5 $\mu$ F		1200 = 1200 Vdc		
	105 = 1.0 $\mu$ F		1600 = 1600 Vdc		

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### Ratings

Catalog	Cap	Resistor	L Max		T Max		H Max		S	Ød <sub>cap</sub>		Ød <sub>res</sub>		
Part Number	(µF)	Ohms Watts	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)
<b>200 Vdc / 125Vac</b>														
QAS104K200D150	0.1	150 1/2	1.08	(27.5)	0.46	(11.8)	0.66	(16.7)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K200D680	0.1	680 1/2	1.08	(27.5)	0.46	(11.8)	0.66	(16.7)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS504K200D022	0.5	22 1/2	1.08	(27.5)	0.37	(9.5)	0.64	(16.3)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS504K200D047	0.5	47 1/2	1.08	(27.5)	0.37	(9.5)	0.64	(16.3)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS504K200D100	0.5	100 1/2	1.08	(27.5)	0.37	(9.5)	0.64	(16.3)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS504K200D220	0.5	220 1/2	1.08	(27.5)	0.37	(9.5)	0.64	(16.3)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS105K200D022	1	22 1/2	1.45	(36.8)	0.39	(10.0)	0.67	(17.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS105K200D047	1	47 1/2	1.45	(36.8)	0.39	(10.0)	0.67	(17.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
<b>600 Vdc / 250Vac</b>														
QAS104K600D022	0.1	22 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K600D047	0.1	47 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K600D100	0.1	100 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K600D150	0.1	150 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K600D220	0.1	220 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS104K600D330	0.1	330 1/2	1.08	(27.5)	0.39	(10.0)	0.67	(17.0)	0.82	(20.8)	0.031	(0.8)	0.025	(0.635)
QAS254K600D022	0.25	22 1/2	1.45	(36.8)	0.42	(10.6)	0.75	(19.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS254K600D047	0.25	47 1/2	1.45	(36.8)	0.42	(10.6)	0.75	(19.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS254K600D100	0.25	100 1/2	1.45	(36.8)	0.42	(10.6)	0.75	(19.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS254K600D150	0.25	150 1/2	1.45	(36.8)	0.42	(10.6)	0.75	(19.0)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS504K600D022	0.5	22 1/2	1.45	(36.8)	0.59	(15.0)	0.92	(23.4)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS504K600D047	0.5	47 1/2	1.45	(36.8)	0.59	(15.0)	0.92	(23.4)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS504K600D100	0.5	100 1/2	1.45	(36.8)	0.59	(15.0)	0.92	(23.4)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
QAS504K600D150	0.5	150 1/2	1.45	(36.8)	0.59	(15.0)	0.92	(23.4)	1.20	(30.5)	0.031	(0.8)	0.025	(0.635)
<b>1200 Vdc / 480Vac</b>														
QAS104K122D039	0.1	39 2	1.60	(40.6)	0.64	(16.3)	1.04	(26.4)	1.29	(32.7)	0.031	(0.8)	0.031	(0.8)
<b>1600 Vdc / 660Vac</b>														
QAS104K162D039	0.1	39 2	2.18	(55.4)	0.54	(13.7)	1.00	(25.4)	1.80	(45.7)	0.031	(0.8)	0.031	(0.8)

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