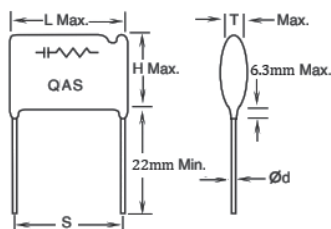


Radial Metallized Polyester RC Network for Transient Suppression



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 µF, 0.25 µF, 0.50 µF, 1.0 µF
Capacitance Tolerance	±10%
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 an anti-surge resistor
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	

Part Numbering System

QAS	104	K	600	D	022
Type	Capacitance	Capacitance Tolerance	Voltage Code	Case Type	Resistance
	104 = 0.1µF	K = ±10%	200 = 200 Vdc		022 = 22Ω
	254 = 0.25µF		600 = 600 Vdc		150 = 150Ω
	504 = 0.5µF		1200 = 1200 Vdc		
	105 = 1.0µF		1600 = 1600 Vdc		

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Ratings

Catalog	Cap	Resistor		L Max		T Max		H Max		S		Ød _{cap}		Ød _{res}	
Part Number	(µF)	Ohms	Watts	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)
200 Vdc / 125Vac															
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)
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)
600 Vdc / 250Vac															
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)
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)
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)
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)
1200 Vdc / 480Vac															
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)
1600 Vdc / 660Vac															
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)

Type QAS, Arc Suppressor/Snubber Network

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