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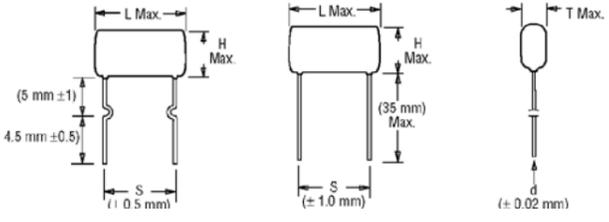
### Metalized Polyester Capacitors

- Features**
- ▶ Non-Inductively Wound
  - ▶ Non-Polar
  - ▶ Flame Retardant Epoxy Powder
  - ▶ Available Straight Leads Unless Tape and Ammo Ammo Pack as Special Order

**General Specifications**  
 Operating Temperature: -40°C to +100°C with voltage derating above 85°C. **Voltage Range:** 63 VDC to 630 VDC. **Capacitance Range:** 0.01 µF to 10 µF.  
 Capacitance Tolerance: ±5%, ±10%, ±20%.

**5% Tolerance**

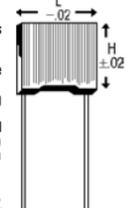
Stock No.	Mfr.'s Type	Cap Value µF	Volts	Dimensions (In.)				EACH	
				L	T	H	S	1-99	100-499
852-0200	DMF103J630B	0.010	630	0.512	0.236	0.394	0.394	.36	.30
852-0202	DMF104J100A	0.100	100	0.413	0.236	0.374	0.295	.31	.27
852-0206	DMF104J400C	0.100	400	0.728	0.276	0.492	0.591	.46	.40
852-0210	DMF105J100C	1.000	100	0.728	0.335	0.531	0.591	.69	.61
852-0218	DMF224J100B	0.220	100	0.512	0.256	0.394	0.394	.44	.38
852-0220	DMF224J250C	0.220	250	0.728	0.256	0.453	0.591	.44	.38



### Series 158X Metallized Type X2 Polyester Suppressors

- ▶ Capacitance: 0.01 to 2.2 µF (Other Cap Values Available on Special Order)
- ▶ Voltage: 250 VAC/275 VAC
- ▶ Temperature: -40°C to +100°C (with Voltage Derating Above +85°C)
- ▶ International Agency Approvals Including UL1414 and CSA
- ▶ Short Leads Available As Special Order Item. Add "S" to Part Number (Lead Configuration 0.138" Min.)
- ▶ 10% Tolerance Available as Special Order Item By Adding "K" to Mfr.'s Type

The Series 158X is a radial leaded metallized polyester, AC line suppression capacitor, housed in a flame-retardant pre-molded plastic case with epoxy resin fill. **Temperature Range:** -40°C to +100°C with voltage derating above 85°C. **Capacitance Range:** 0.1 µF to 2.2 µF. Suggested applications are energy storage, filtering, pulse discharge, discrimination, and suppression.



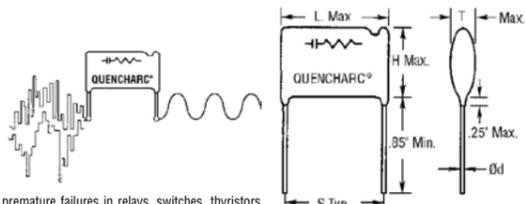
**20% Tolerance, 250 WVDC/275 WVDC**

Stock No.	Mfr.'s Type	Cap. MFD	Dimensions (In.)			Lead Spac.	EACH	
			L	T	H		1-99	100-499
852-0474	158X103	0.010	0.669	0.197	0.472	0.591	.60	.51
852-0484	158X473	0.047	0.669	0.217	0.492	0.591	.61	.52
852-0475	158X104	0.100	0.669	0.315	0.591	0.591	.62	.53
852-0478	158X224	0.220	0.984	0.315	0.689	0.886	1.10	.91
852-0485	158X474	0.470	1.181	0.433	0.886	1.083	1.54	1.32
852-0482	158X105	1.000	1.201	0.591	0.965	1.083	2.74	2.46
852-0473	158X225	2.200	1.614	0.689	1.280	1.470	5.47	4.90

### Q/QRL Series (QUENCHARC®) Metallized Polyester Arc Suppressor/ Snubber Network

- ▶ Noise and Arc Suppression
- ▶ RC Snubber Network
- ▶ Relay Contact Protection
- ▶ EMI/RFI Reduction
- ▶ Noise Reduction on Controllers/Drivers
- ▶ Type QRL: UL/CSA Version

"ARCING", "SPARKING", and "TRANSIENTS" often cause premature failures in relays, switches, thyristors, triacs, contactors, and related products. QUENCHARC® extends operating life when properly selected and applied. **General Specifications:** Operating Temperature: -55°C to +85°C at full rated voltage. **Voltage Range:** 200 VDC (125 VAC) to 600 VDC (250 VAC). **Capacitance Values:** 0.1, 0.5, 1.0 µF. **Resistor Values:** 22, 47, 100, 150, 220 ohms. **Tolerance at 100 KHz:** Capacitance: ±20%; Resistance: ±10%. **Construction:** Metallized polyester in series with a carbon composition resistor. **Case:** Coated with a flame retardant epoxy. **Dielectric Withstand:** Units shall withstand a DC potential of 1.6 times the DC voltage rating. Testing conducted at +25°C. **Test Method and Performance, DC Life Test:** Units shall withstand a test potential of 125% of the rated voltage for a period of 500 hours at 85°C. A failure shall consist of capacitance change >5% or a DF greater than 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.



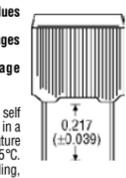
Stock No.	Mfr.'s Type	Cap. µF	Resistor Watts	Resistor Ohms ±10%	Dimensions								EACH			
					L Max.		T Max.		H Max.		S Typ.		ød	1-99	100-249	
					In.	mm	In.	mm	In.	mm	In.	mm				
852-7500	504M020A100*	.50	1/2	100	1.080	27.4	0.370	9.4	0.640	16.3	0.820	20.8	0.032	.8	3.69	3.30
852-7502	504M020A220*	.50	1/2	220	1.080	27.4	0.370	9.4	0.640	16.3	0.820	20.8	0.032	.8	3.69	3.31
852-7504	105M020B47†	1.00	1/2	47	1.450	36.8	0.390	9.9	0.660	16.8	1.200	30.5	0.032	.8	4.07	3.63
852-7506	104M060C22†	.10	1/2	22	1.080	27.4	0.390	9.9	0.660	16.8	0.820	20.8	0.032	.8	3.37	3.00
852-7508	104M060C47†	.10	1/2	47	1.080	27.4	0.390	9.9	0.660	16.8	0.820	20.8	0.032	.8	3.37	3.12
852-7510	104M060C100†	.10	1/2	100	1.080	27.4	0.390	9.9	0.660	16.8	0.820	20.8	0.032	.8	3.37	3.00
852-7512	104M060C150†	.10	1/2	150	1.080	27.4	0.390	9.9	0.660	16.8	0.820	20.8	0.032	.8	3.84	3.42
852-7514	104MACQRL150‡	.10	1/2	150	1.080	27.4	0.440	11.2	0.660	16.8	0.820	20.8	0.032	.8	4.07	3.63

\*200 VDC/125 VAC. †600 VDC/250 VAC. ‡UL Recognized for 125 VAC across-the-line, UL File No. E33628, CSA Certified for 125 VAC across-the-line, CSA File No. LR32208.

### Series 168 Metallized Polyester

- ▶ Capacitance: 0.001 µF to 1.0 µF (Other Cap Values Available on Special Order)
- ▶ Voltage: 50 V, 63 V, and 100 V (250, 400 Voltages Available on Special Order)
- ▶ Temperature: -55°C to +125°C (with Voltage Derating Above +85°C)

The Series 168 is a radial leaded metallized polyester self healing film capacitor. Non-inductively wound. Housed in a molded, flame-retardant case with epoxy fill. Temperature range is -55°C to 125°C with voltage derating above 85°C. Suggested applications are blocking, bypass, decoupling, smoothing, timing and tuning.



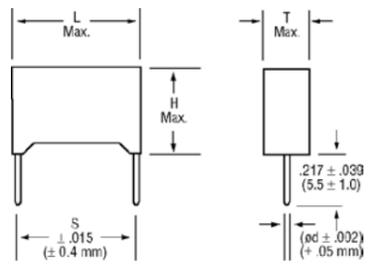
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**5% Tolerance\*, 0.197" Lead Spacing**

Stock No.	Mfr.'s Type	Cap. MFD	WVDC	Dim. (In.)			EACH	
				L	T	H	1-99	100-499
852-1615	168104J50A	0.1000	50	0.283	0.098	0.256	.39	.24
852-0447	168334J50C	0.3300	50	0.283	0.138	0.295	.42	.36
852-0434	168105J50G	1.0000	50	0.283	0.236	0.433	1.37	1.12
852-0448	168473J63A	0.0470	63	0.283	0.098	0.256	.30	.22
852-0435	168104J63A	0.1000	63	0.283	0.098	0.256	.47	.27
852-0437	168224J63C	0.2200	63	0.283	0.138	0.295	.60	.46
852-0432	168474J63H	0.4700	63	0.283	0.177	0.335	.52	.45
852-0446	168472J100A	0.0047	100	0.283	0.098	0.256	.24	.21
852-0442	168103J100A	0.0100	100	0.283	0.098	0.256	.43	.28
852-0433	168473J100C	0.0470	100	0.283	0.138	0.295	.28	.22

\*Also available in 10% tolerance.

### Metalized Polyester Radial Leads



Radial leaded. Non-Polar. **Specifications:** Operating Temperature: -55°C to +125°C with voltage derating above 85°C. **Voltage Range:** 63 VDC to 1000 VDC. **Capacitance Range:** 0.0022 µF to 10 µF.

**63 VDC/40 VAC**

Stock No.	Mfr.'s Type	Cap µF	Dimensions — Inches				Tolerance	EACH	
			L	T	H	S		1-99	100-499
852-0898	160474K63D	0.4700	0.512	0.1970	0.433	0.394	10%	.48	.37
852-0899	160105J63E	1.0000	0.512	0.2360	0.472	0.394	5%	.77	.60
852-0900	160105K63F	1.0000	0.709	0.1970	0.433	0.591	10%	.90	.69

**100 VDC/63 VAC**

Stock No.	Mfr.'s Type	Cap µF	Dimensions — Inches				Tolerance	EACH	
			L	T	H	S		1-99	100-499
852-0903	160104K100C	0.1000	0.512	0.1570	0.374	0.394	10%	.45	.34
852-0905	160224J100D	0.2200	0.512	0.1970	0.433	0.394	5%	.39	.29
852-0910	160105K100H	1.0000	0.709	0.2950	0.531	0.591	10%	1.22	.76
852-0911	160335K100C	3.3000	1.043	0.3940	0.748	0.886	10%	1.93	1.48
852-0913	160685K100C	6.8000	1.260	0.5120	0.886	1.083	10%	2.48	1.94

**250 VDC/160 VAC**

Stock No.	Mfr.'s Type	Cap µF	Dimensions — Inches				Tolerance	EACH	
			L	T	H	S		1-99	100-499
852-0915	160473J250C	0.0470	0.512	0.1570	0.374	0.394	5%	.28	.21
852-0919	160104J250D	0.1000	0.512	0.1970	0.433	0.394	5%	.47	.38
852-0931	160224J250F	0.2200	0.709	0.1970	0.433	0.591	5%	.45	.34
852-0978	160105J250N	1.0000	1.043	0.3350	0.669	0.886	5%	.90	.73
852-0979	160225J250P	2.2000	1.260	0.4330	0.787	1.083	5%	1.70	1.35

**400 VDC/200 VAC**

Stock No.	Mfr.'s Type	Cap µF	L	T	H	S	Tolerance	1-99	100-499
852-0939	160104J400G	0.1000	0.709	0.2361	0.472	0.591	5%	.78	.61

**630 VDC/220 VAC**

Stock No.	Mfr.'s Type	Cap µF	L	T	H	S	Tolerance	1-99	100-499
852-0929	160474J630Q	0.4700	1.260	0.5120	0.886	1.083	5%	1.74	1.38

**1000 VDC/250 VAC**

Stock No.	Mfr.'s Type	Cap µF	L	T	H	S	Tolerance	1-99	100-499
852-0956	160222J1000C	0.0022	0.512	0.1570	0.374	0.394	5%	.39	.32