

REL MultiCap™ - Series PPMFX

The PPMFX series of the MultiCap that winds capacitors coaxially one upon the other, into a single, self-bypassed unit. Since each section is parallel, the inductance of the overall capacitor is reduced by the number of sections used - typically 10. Inductance characteristics never exceed those of a piece of lead wire the same length as the capacitor's body; measured ESR values are 5 to 10 times lower than conventional designs (see Figure 1). The PPMFX MultiCap With its overall reduction of parasitics, this series is ideal for use wherever low ESR, low DF, high resonant frequency, high performance, and small size are important, and wherever metalized capacitors are in use.

Capacitance Values:

.001 to 30.0 uf. Special values on request.

Tolerances:

+/- 10%. Special tolerances on request.

Working Voltages:

200, 400, 600; 100 & 800 on request.

Test Volts:

2.0 x rated voltage for one minute.

Dissipation Factor:

< 0.05% 1.0 - 10.0 uf @ 1kHz @ 25 degrees C
 < 0.05% > 10.0 uf @ 120 Hz @ 25 degrees C
 < 0.03% .1 - 1.0 uf @ 1kHz @ 25 degrees C
 < 0.02% .001 - .1 uf @ 1kHz @ 25 degrees C

Insulation Resistance:

>300,000 megohm/ufd

Operating Temperature Range:

- 55 to 105 degrees C

Temperature Coefficient:

-150 PPM/degree C

Life Tests:

Rated voltage @ 85 degrees C for 1000 hrs

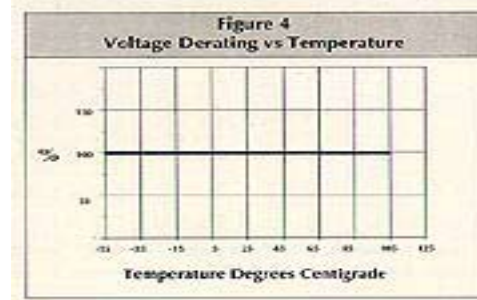
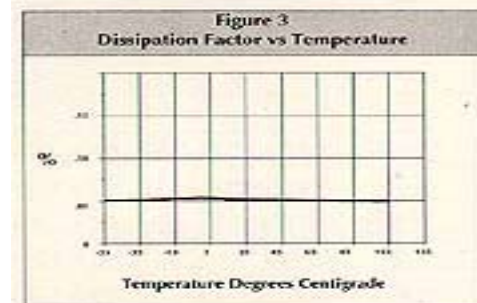
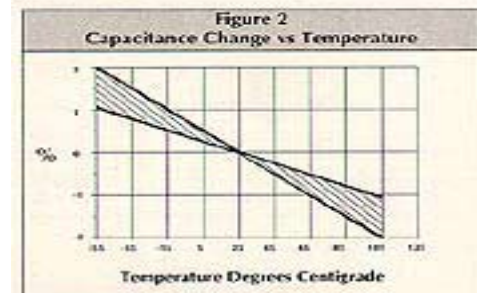
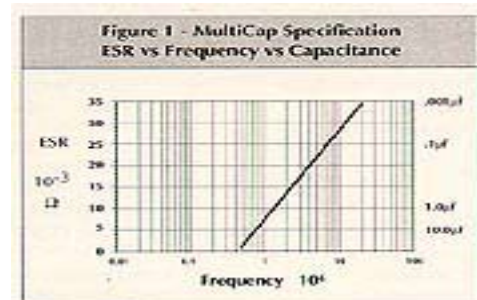
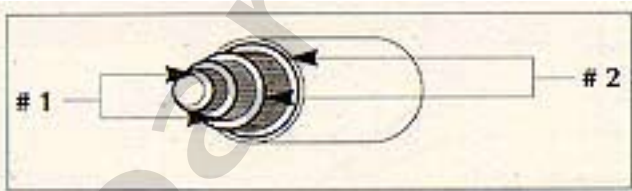
Vibration:

Will meet Mil-C-19978B

Lead Material:

Tin-plated copper. Others available on request.

A cross-sectional drawing (leads removed) showing the coaxial construction of a MultiCap™. For simplicity's sake, only two of the 10 sections are included.



PARTS CONNEXION



DIMENSIONS (INCHES) - MultiCap™ PPMFX - AXIAL LEADS, OVAL CASE

Capacitance in ufd	200 VDC w x h x l	400 VDC w x h x l	600 VDC w x h x l
.01	--	--	.20 x .30 x .60
.022	--	--	.20 x .40 x .60
.047	--	--	.30 x .40 x .60
.10	.30 x .50 x .60	.30 x .50 x .80	.30 x .60 x .80
.22	.30 x .50 x .80	.40 x .60 x .80	.50 x .60 x 1.0
.33	.30 x .50 x .80	.40 x .60 x 1.0	.50 x .70 x 1.0
.47	.30 x .50 x 1.1	.50 x .70 x 1.1	.60 x .80 x 1.3
.68	.40 x .60 x 1.1	.50 x .80 x 1.3	.70 x .90 x 1.3
1.0	.50 x .70 x 1.1	.70 x .80 x 1.3	.70 x 1.0 x 1.3
2.0	.60 x .80 x 1.3	1.0 x 1.1 x 1.3	--
3.0	.70 x .90 x 1.3	.90 x 1.1 x 1.8	--
4.0	.70 x .90 x 1.5	1.1 x 1.2 x 1.8	--
5.0	.70 x .90 x 1.8	1.2 x 1.4 x 1.8	--
8.0	.90 x 1.1 x 1.8		--
10.0	1.0 x 1.2 x 2.1	--	--
15.0	1.1 x 1.3 x 2.0	--	--
20.0	1.3 x 1.5 x 2.1	--	--
30.0	1.3 x 1.5 x 2.8		--

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PPMFX

Metalized Polypropylene

Voltage	Microfarads	Gauge Wire
100V	1.5 - 8.0	20GA
	10.0	18GA
200V	.10 - .22	22GA
	.33 - 3.0	20GA
	4.0 - 9.0	18GA
	10.0 - 30.0	16GA
400V	.10	22GA
	.22 - .68	20GA
	1.0 - 3.3	18GA
	4.0 - 6.0	16GA
600V	.001 - .068	22GA
800V	.01	22GA
	.22	20GA
	.47	18GA

Lead Diameters: .025" for caps 1/4 - 1/2" long; .032" for caps 1/2 - 3/4" long; .04" for caps 3/4 - 1" long; .051" for caps over 1" long.