## REL MultiCap<sup>™</sup>- Series PPFXS

The PPFX-S series of the MultiCap™ reduces typical capacitor loss factors with a patented design 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). Dielectric absorption is very low, making the PPFXS desirable in high-speed circuits. In its overall reduction of parasitics, this series comes closest to the RTX in measured performance, yet can tolerate higher temperatures (105 degrees C). It is ideal for use in all applications where low ESR, low DF, and high current are important, and wherever the finest

film and foil capacitors are required.

**Capacitance Values:** 

.01 to 12.0 uf. Special values on request.

**Tolerances:** 

+/- 10%. Special tolerances

on request.

**Working Voltages:** 

**Dissipation Factor:** 

**Insulation Resistance:** 

**Temperature Coefficient:** 

100, 200, 400, 600; 800 on

request

**Test Volts:** 

**Life Tests:** 

Vibration:

**Lead Material:** 

2.0 x rated voltage for one

minute.

< 0.05% 1.0 - 10.0 uf @ 1kHz @ 25 degress C

< 0.05% > 10.0 uf @ 120

Hz @ 25 degress C

< 0.03% .1 - 1.0 uf @ 1kHz

@ 25 degress C

< 0.02% .001 - .1 uf @ 1kHz @ 25 degress C

>300,000 megohm/ufd

>300,000 megoninyara

Operating Temperature Range: - 55 to 105 degress C

-150 PPM/degree C Rated voltage @ 85

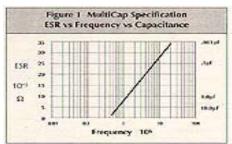
degrees C for 1000 hrs

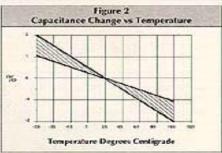
Will meet Mil-C-19978B

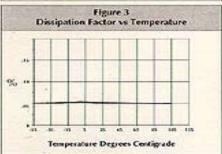
Tin-plated copper. Others

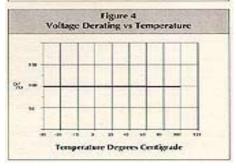
available on request.

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.









Toll Free: 1-866-681-9602 • Local: 905-681-9602 • Fax: 905-631-5777
Shipping Address: 5109 Harvester Rd, Unit B2 • Burlington • Ontario • Canada • L7L 5Y4

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DIMENSIONS (INCHES) - MultiCap™ PPFX-S - AXIAL LEADS, OVAL CASE					
Capacitance in ufd	100 VDC wxhxl	200 VDC w x h x l	400 VDC w x h x l	600 VDC w x h x l	
.10			.32 x .52 x 1.0	.42 x .62 x 1.1	
.15			.42 x .62 x 1.1	.42 x .62 x 1.2	
.22			.42 x .62 x 1.1	.52 x .72 x 1.2	
.33		0	.52 x .72 x	.62 x .82 x	
.47		1	.52 x .82 x 1.3	.72 x .92 x 1.3	
.68			.62 x .92 x 1.4	.72 x .92 x 1.8	
1.0	.52 x .72 x 1.3	.62 x .92 x 1.3	.72 x 1.2 x 1.3	.82 x 1.2 x 1.8	
1.5	.62 x .72 x 1.3	.72 x 1.2 x 1.3			
2.0	.72 x 1.2 x 1.3	.92 x 1.2 x 1.3			
3.0	.92 x 1.2 x 1.3	.90 x 1.2 x 1.8			
4.0	.92 x 1.2 x 1.3	1.2 x 1.4 x 1.8			
5.0	.92 x 1.2 x 1.8	1.4 x 1.5 x 1.8			
6.0	.92 x 1.4 x 1.8	1.4 × 1.5 × 1.8			
7.0	1.3 × 1.5 × 1.8	1.3 x 1.5 x 2.3			
8.0	1.3 × 1.5 × 1.8	1.5 x 1.8 x 2.3			
9.0	1.4 x 1.6 x 1.8	1.6 x 1.8 x 2.3			
10.0	1.5 x 1.6 x 1.8	1.6 x 1.8 x 2.3			
12.0	1.6 x 1.8 x 2.0	1.7 x 1.8 x 2.3			

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**PPFX-S**Polypropylene & Tin

Microfarads	Gauge Wire
1.0	20GA
2.0 - 10.0	18GA
.122	22GA
1.0 - 1.5	20GA
2.0	18GA
3.0 - 12.0	16GA
.02201	22GA
.1068	20GA
1.0	18GA
2.0	16GA
.0133	20GA
.47	18GA
.68 - 1.0	16GA
.01	22GA
.22	20GA
.47	18GA
	1.0 2.0 - 10.0 .122 1.0 - 1.5 2.0 3.0 - 12.0 .02201 .1068 1.0 2.0 .0133 .47 .68 - 1.0 .01 .22

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.

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