

Polyester (Mylar) and Foil Type MF Retro Capacitors

The Electrocube Type MF Retro series is part of a designated line of capacitors specially optimized for the high-end audio industry using design and manufacturing techniques proprietary to Electrocube. Proudly made in the U.S., it offers original vintage tones for guitars and amplifiers in a variety of sizes and configurations. The Type MF Retro series has unique high performance and long life characteristics with its polyester construction, encased in a metal tube, and then hermetically sealed. Creating an old-style soft sound, audio engineers prefer the Type MF Retro series for authentic tonal values in high-end professional, commercial and stage use.

Specifications

Temperature range

- ■ ■ -55°C to +85°C at rated voltage
- ■ ■ Up to +125°C with 50% voltage derating

Dielectric strength

- ■ ■ Will withstand 200% at rated voltage and 25°C for a period not to exceed 1 minute
- ■ ■ Current limited to 5 mA

Life test

- ■ ■ Will withstand rated voltage for 250 hours at +125°C with not more than 1 failure in 12 permitted

Dissipation factor

- ■ ■ Will not exceed 0.5% at 25°C

Acceptance criteria

- ■ ■ Measurement frequency for capacitance and dissipation factor will be:
 - 1,000 Hz for values up to 1 mfd.
 - 120 Hz for values over 1 mfd.

Insulation resistance

- ■ ■ At rated voltage or 500 V, whichever is less, units will meet minimum values as follows:

TEMP. [°C]	MEG X MFD.	MEG (need not exceed)
	200 V - UP	200 V - UP
25	40,000	80,000
85	4,000	8,000
125	80	160



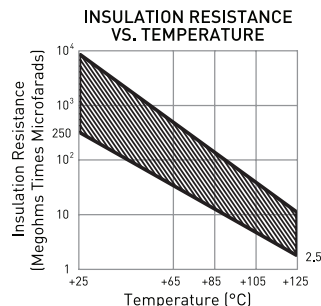
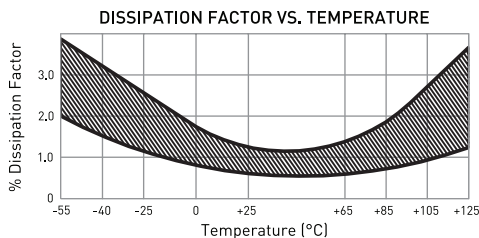
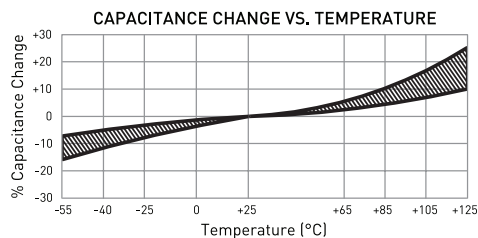
Type MF Retro Series

Available in round shape with axial-lead, polyester, metal enclosure hermetically sealed

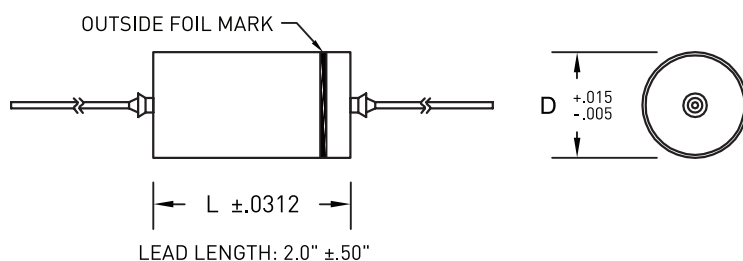
Features

- ■ ■ Non-inductively wound, extended foil construction with standard tin-coated, oxygen-free solid copper leads
- ■ ■ Tolerances available to 5%
- ■ ■ Voltages available from 200 VDC to 600 VDC
- ■ ■ Compliance and certification to worldwide and other environmental standards available upon request; available in Non-RoHS construction only
- ■ ■ Customizable insulating sleeves, mountings, special terminals, non-standard leads, circuit connections and other hardware
- ■ ■ Assorted styles, ratings and customization for unusual requirements necessitated by special circuit applications (including higher IR or lower DF)

Typical Dielectric Characteristic Curves



Hermetic Seal Configuration



200 VOLT DC					400 VOLT DC					600 VOLT DC				
MFD.	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)	PART NO.	DIMENSIONS		LEAD SIZE (AWG)		
		D	L			D	L			D	L			
.0010	MFD1C102*	.235	.687	22	MFD1E102*	.235	.687	22	MFD1F102*	.235	.687	22		
.0015	MFD1C152*	.235	.687	22	MFD1E152*	.235	.687	22	MFD1F152*	.235	.687	22		
.0022	MFD1C222*	.235	.687	22	MFD1E222*	.235	.687	22	MFD1F222*	.235	.687	22		
.0033	MFD1C332*	.235	.687	22	MFD1E332*	.235	.687	22	MFD1F332*	.312	.812	22		
.0047	MFD1C472*	.235	.687	22	MFD1E472*	.235	.687	22	MFD1F472*	.312	.812	22		
.0068	MFD1C682*	.235	.687	22	MFD1E682*	.235	.687	22	MFD1F682*	.312	.812	22		
.010	MFD1C103*	.235	.687	22	MFD1E103*	.235	.687	22	MFD1F103*	.312	.812	22		
.015	MFD1C153*	.235	.687	22	MFD1E153*	.235	.687	22	MFD1F153*	.400	.812	20		
.022	MFD1C223*	.235	.687	22	MFD1E223*	.312	.812	22	MFD1F223*	.400	.812	20		
.033	MFD1C333*	.312	.812	22	MFD1E333*	.312	.812	22	MFD1F333*	.400	1.062	20		
.047	MFD1C473*	.312	.812	22	MFD1E473*	.400	1.062	20	MFD1F473*	.400	1.312	20		
.068	MFD1C683*	.312	.812	22	MFD1E683*	.400	1.062	20	MFD1F683*	.562	1.062	20		
.10	MFD1C104*	.400	.812	20	MFD1E104*	.400	1.312	20	MFD1F104*	.562	1.312	20		
.15	MFD1C154*	.400	1.062	20	MFD1E154*	.562	1.062	20	MFD1F154*	.562	1.562	20		
.22	MFD1C224*	.410	1.312	20	MFD1E224*	.562	1.312	20	MFD1F224*	.670	1.562	20		
.33	MFD1C334*	.562	1.062	20	MFD1E334*	.562	1.812	20	MFD1F334*	.750	2.062	20		
.47	MFD1C474*	.562	1.312	20	MFD1E474*	.670	1.812	20	MFD1F474*	.750	2.312	20		
.68	MFD1C684*	.562	1.812	20	MFD1E684*	.750	2.062	20	MFD1F684*	-	-	-		
1.0	MFD1C105*	.670	1.812	20	MFD1E105*	1.00	1.812	20	MFD1F105*	-	-	-		
1.5	MFD1C155*	-	-	-	MFD1E155*	-	-	-	MFD1F155*	-	-	-		
2.0	MFD1C205*	-	-	-	MFD1E205*	-	-	-	MFD1F205*	-	-	-		
2.2	MFD1C225*	-	-	-	MFD1E225*	-	-	-	MFD1F225*	-	-	-		

* Add tolerance designator to complete part number: J = ±5%, K = ±10%, M = ±20%

For questions and/or a quote, contact Sales at 909-595-4037 or info@electrocube.com.



Founded in 1961, Electrocube is one of the most respected design manufacturers of passive electrical components – film capacitors, RC Networks, EMI Filters and foil transformers – for a wide range of standard and custom applications in the aerospace, audio, elevator, heavy equipment industries and more. Electrocube’s hallmark is its clear understanding of the challenges faced by design engineers and purchasing agents as well as audio engineers, editors and musicians in the high-end audio industry. www.electrocube.com