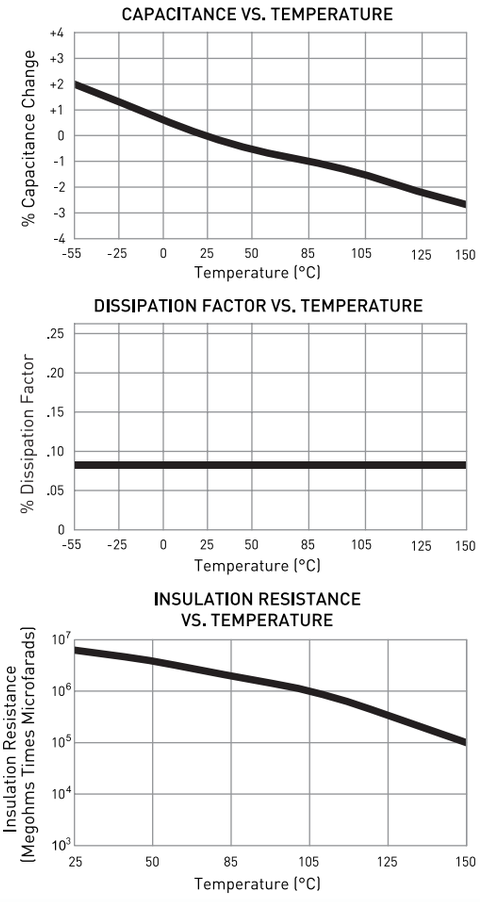
electrocube
... it's a part of what we do.

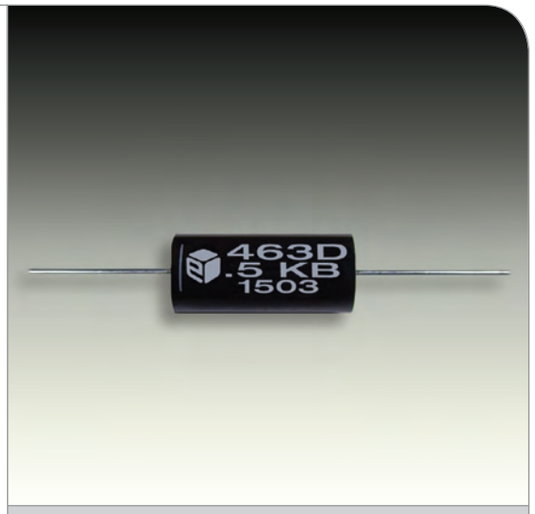
Metallized Polytetrafluoroethylene (*Teflon*®)
463D Series Film Capacitors

Extreme High Temperature

The Electrocube 463D series is part of a designated line of capacitors specially designed and optimized for high temperature applications subject to AC and pulsing signals. Proudly made in the U.S., it offers high frequency operation, high current and stability in miniature package able to handle high surge currents without degrading. It's a rugged, non-inductively wound metallized capacitor with high temperature outer wrap and epoxy endfill manufactured with proprietary processes that allow for successful use in high temperature environments. Created with high-grade materials, design and manufacturing, engineers prefer the 463D series for any extremely high temperature applications such as avionics, wind generation, high power applications, "down the hole" exploration and turbines.

Typical Dielectric Characteristic Curves





463D Series
Available in round shape with high temperature outer wrap and epoxy endfill

Features

- Protective clear wrap offered on all wrap and fill units
- Extended electrode construction and standard tin-coated, oxygen-free solid copper leads
- Tolerances available: ±5%, ±10%, ±20%
- Epoxy Resin endfills meet or exceed flammability requirements of UL94V0
- Compliance and certification to worldwide and other environmental standards available upon request; RoHS and Non-RoHS available on most units
- May be used for frequencies up to 100 KHz
- Applications include pulse, filter circuits as well as audio amplifiers, speakers and musical instruments
- 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)
- Dimensional variations for all mfd. values available with same volume

Specifications

Temperature range
- -55°C to +150°C without derating

Dielectric voltage test
- Will withstand 150% of DC rated voltage for a period not to exceed 1 minute at temperature of 25 °C
- Current limited to 5 mA

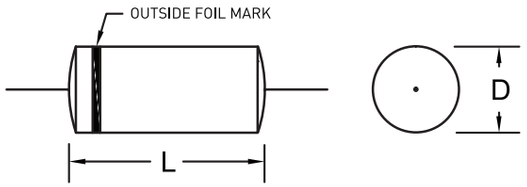
DC life test
- Will withstand 140% of the DC rated voltage at 150°C for 250 hours with not more than 1 failure in 12 permitted
- Current limited to 5 mA
- Additional life test details available

Dissipation factor
- Will not exceed 0.1% at 25°C

Dielectric absorption
- Will not exceed 0.02% at 25°C per MIL-C-19978

Acceptance criteria
- Measurement frequency for capacitance and dissipation factor will be 1,000 Hz

Wrap and Fill Round Configuration



LEAD LENGTH: 2.0" ±.50"

For max D and L dimensions, allow +.062".

600 VOLT DC				
MFD.	PART NO.	DIMENSIONS		LEAD SIZE (AWG)
		D	L	
.0010	463D1F102*	.15	.50	24
.0015	463D1F152*	.15	.50	24
.0022	463D1F222*	.15	.50	24
.0033	463D1F332*	.16	.50	24
.0047	463D1F472*	.18	.50	24
.0068	463D1F682*	.19	.68	24
.010	463D1F103*	.21	.68	24
.015	463D1F153*	.25	.68	24
.022	463D1F223*	.29	.68	22
.033	463D1F333*	.35	.68	22
.047	463D1F473*	.42	.68	22
.068	463D1F683*	.40	.95	20
.10	463D1F104*	.47	.95	20
.15	463D1F154*	.56	.95	20
.22	463D1F224*	.65	.95	20
.33	463D1F334*	.79	.95	20
.47	463D1F474*	.80	1.25	20
.68	463D1F684*	.95	1.25	20
1.0	463D1F105*	1.00	1.40	20

** 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.

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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. **www.electrocube.com**