

Features

- Complies with ARP936 Insertion Loss requirements as per MIL-STD-220 measurement method
- Appropriate for use in RTCA DO-160 and Mil-Std 461 compliance tests
- Built-in discharge resistor for safety
- Excellent stability with long life
- High insulation resistance
- Allows bulkhead or bench mounting
- Three-Year Warranty

Description

The **CFT-10u** Feed-Thru Capacitors are ruggedly constructed are highly reliable units for general use in shielded enclosures and other environments. The capacitors have four threaded mounting holes for easy installation onto a metal enclosure. Power connections are made to their M6x1 threaded feed-thru stud. They are rated for currents up to 100 Amps without heating or voltage loss.

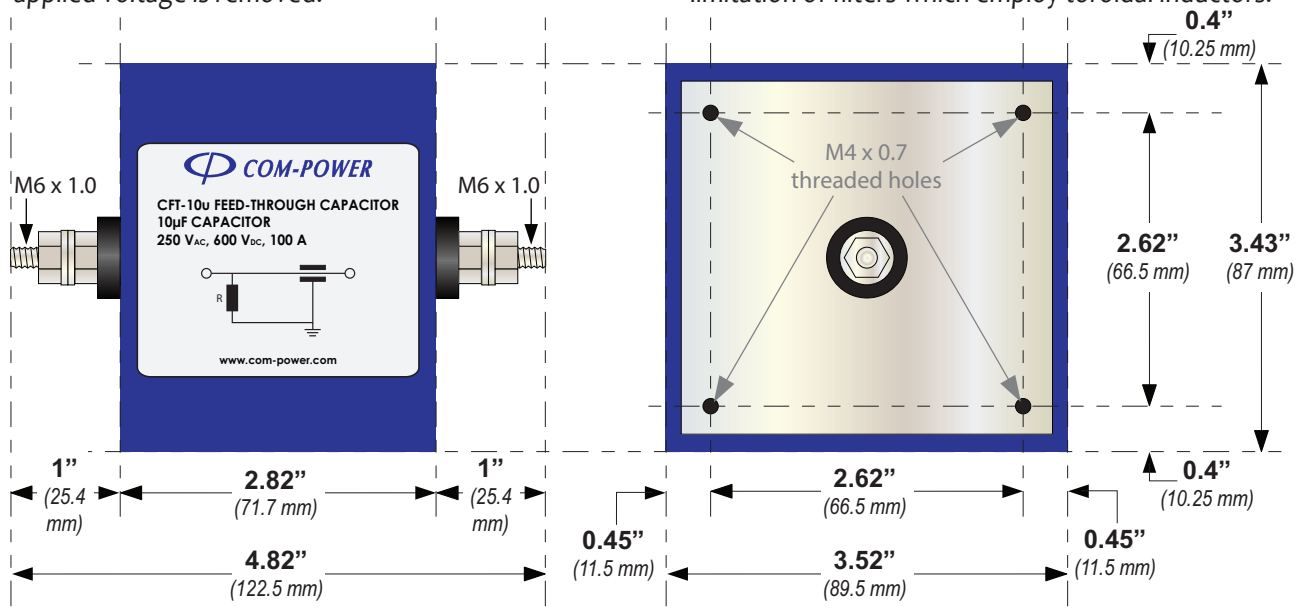
These capacitors feature low dissipation factors, high temperature ratings, high insulation resistance, double the rated dielectric strength, and long life. For safety purposes, a parallel bleeder resistor is incorporated internally in order to discharge the capacitor when the applied voltage is removed.



Application

Com-Power's 10 μ F (microfarad) feed-thru capacitor is intended for use during EMI/EMC testing such as RTCA DO-160 as well as MIL-STD-461. The 10 μ F feed-thru capacitor provides a low impedance to ground across the power source so that emissions produced by the equipment under test can be measured accurately with a current probe such as Com-Power Model **CLCE-438** or **CLCE-452**.

The feed-thru capacitor is used for added filtering and impedance stabilization in conjunction with an LISN (Line Impedance Stabilization Network) such as Com-Power's **LI-4xxx** or **LI-3xxx** series. The 10 μ F feed-thru capacitor can also be used as a power-line filter installed on the wall of a shielded enclosure or equipment cabinet. The capacitor provides adequate insertion loss without suffering the power current saturation limitation of filters which employ toroidal inductors.



Specifications

All values are typical, unless specified.
All specifications are subject to change without notice.

<i>Product</i>	10 μF Feed-Thru Capacitor
<i>Capacitance</i>	10 μF \pm10%
<i>Voltage Ratings</i>	250 VAC (50-400 Hz) 600 VDC
<i>Current Rating</i>	100 Amperes at 40 degrees C
<i>Temperature</i>	-55°C to +70°C @ rated voltage +105°C @ 50% of rated voltage
<i>Dissipation Factor</i>	Less than 1% at 25°C (measured at 120 Hz)
<i>Dielectric Strength</i>	Twice the rated VDC @ 25°C for two minutes
<i>Bleeder Insulation Resistance</i>	1.5 MΩ \pm5 % @ 25°C rated voltage
<i>Insulation Resistance</i>	100MΩ prior to adding bleeder resistance
<i>Insulating Material Flammability Rating</i>	UL94 V-0
<i>Construction</i>	CRCA, Brass / Nickel Plated, Painted
<i>Dimensions (L) x (W) x (H)</i>	4.82" x 3.52" x 3.43" (122.5 mm x 89.5 mm x 87 mm)
<i>Weight</i>	2.2 lbs (1 kg)

Related Items Available from Com-Power:



LI-3P-3xxx-Series 3-Phase, 5 μ H LISNs



LI-325C 5 μ H LISNs



SPA-900TG Series Spectrum Analyzers

Also Available:

CLCI-400 Bulk Current Injection Probe
TERM-50-100W Power Termination
DCD-1000-100W Dual Directional Coupler

