

INSTRUCTION MANUAL

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FEED THRU CAPACITOR

ELECTRO-METRICS

MODEL FTC-10

SERIAL NO: N/A

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WARRANTY

This Model FTC-10 Feed Thru Capacitor is warranted for a period of 12 months (USA only) from date of shipment against defective materials and workmanship. This warranty is limited to the repair of or replacement of defective parts and is void if unauthorized repair or modification is attempted. Repairs for damage due to misuse or abnormal operating conditions will be performed at the factory and will be billed at our commercial hourly rates. Our estimate will be provided before the work is started.

DESCRIPTION FEED THROUGH CAPACITOR ELECTRO-METRICS MODEL FTC-10

1.0 Description

FTC-10 is a 10 μ F feed-through capacitor designed for EMI testing to SAE, MIL-STD-461, plus several other government and commercial specifications and requirements.

The capacitor provides a low RF impedance path across a power source allowing a current probe to sample EMI currents being generated by the device under test. The capacitor can also be mounted to the wall of a shielded inclusure and used as a power line filter.

The capacitor assembly consists of several capacitors in parallel plus a bleeder resistor (for safety purposes) to ground which discharges the capacitor whenever the voltage is removed. The sealed housing is made of plated steel with four 10-32 inserts for wall mounting. The feed-through terminal studs are 1/4-28 brass which can handle current levels up to 100 A without voltage loss or excessive heating.

The FTC-10 meets the requirements of SAE-ARP 936 and satisfies several requirements in MIL-STD-461/462 plus numerous government (both domestic and foreign) and commercial specifications.

2.0 Specifications

2.1 Electrical

	Capacitance:	$10\mu F{\pm}10\%$.
	Voltage Rating:	DC: 600 VDC maximum. AC: 250 VAC maximum.
	Current:	100 A, continuous.
	Temperature Range:	-55°C to +105°C.
	Bleeder Resistance:	510 kilohms.
2.2	Mechanical	
	Height:	76 mm (3.0")
	Width:	95 mm (3.75")
	Length:	95 mm (3.75")
	Terminal Length:	30 mm (1.2")
	Weight:	1.5 kg (3.3 lbs)