

MODEL NUMBER:
FTC-10

FEED-THRU CAPACITOR



FEATURES:

- High insulation resistance over a wide temperature range
- Excellent stability with long life
- Built-in discharge resistor for safety
- Designed for bulkhead or bench mounting

DESCRIPTION:

Feed-thru capacitors are highly reliable and ruggedly constructed units for general use in screen rooms and other environments. The metal case with four husky threaded inserts lends itself to convenient installation with minimal effort.

The threaded feed-thru stud will accommodate power current of the listed rating without heating or voltage loss. Table 2 indicates available current and voltage ratings of the various Solar 10 μ F Feed-Thru Capacitors. All have low dissipation factors, high temperature ratings, high insulation resistance, doubly rated dielectric strength, and long life characteristics. To satisfy safety requirements, a bleeder resistor is included within the capacitors, which serves to discharge the capacitors when applied voltage is removed.

The feed-thru capacitor is used for added filtering in conjunction with line impedance stabilization networks. The 10 μ F feed-thru capacitor can also be used as a power-line filter installed in the wall of a shielded enclosure or equipment cabinet. The capacitor provides adequate insertion loss without suffering the power current saturation limitation of conventional filters which employ toroidal inductors.

SPECIFICATIONS

PARAMETER	SPECIFICATION
Capacitance	10 μ F
Tolerance	$\pm 10\%$
Temperature	-55°C to +70°C @ rated voltage +105°C @ 50% of rated voltage
Dissipation factor	Less than 1% at 25°C (measured at 120 Hz)
Dielectric strength	Twice the rated VDC @ 25°C for two minutes
Insulation resistance	2500 M Ω @ 25°C rated voltage for two minutes. (Insulation resistance greater than 500 k Ω cannot be measured due to the internal bleeder resistor)
Bleeder resistor	A minimum 500 k Ω resistor included as specified in SAE document ARP-936
Life test	Will withstand the rated DC voltage @ 85°C for 250 hours
Construction	Extended foil coaxial winding protected with a thin polyester film

CURRENT AND VOLTAGE RATINGS

A	60 HZ	400 HZ	VDC
100	275	250	600

FIGURES

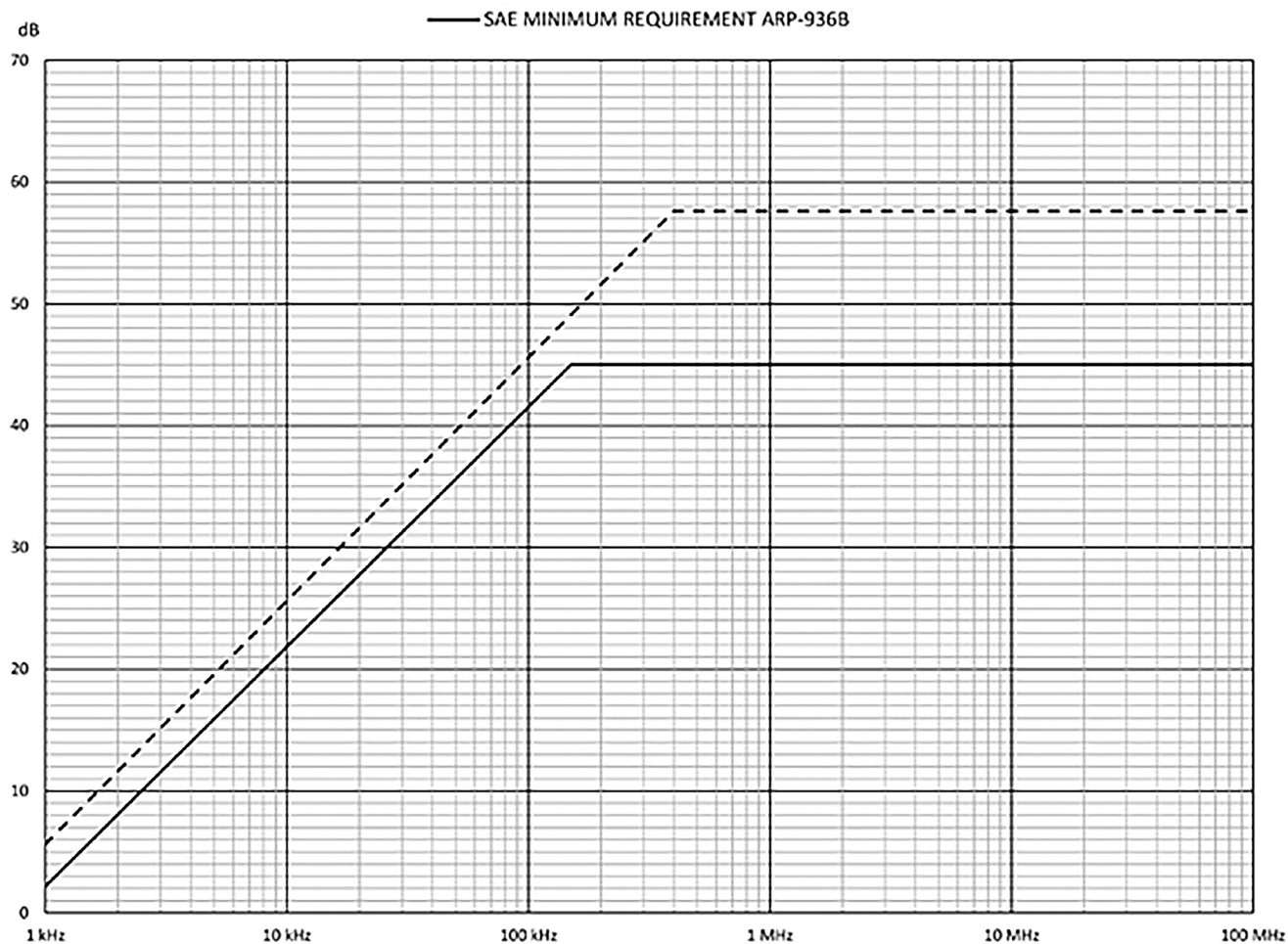


FIG. 1 – INSERTION LOSS MEASURED IN 50 Ω CIRCUIT PER MIL-STD-220C

