

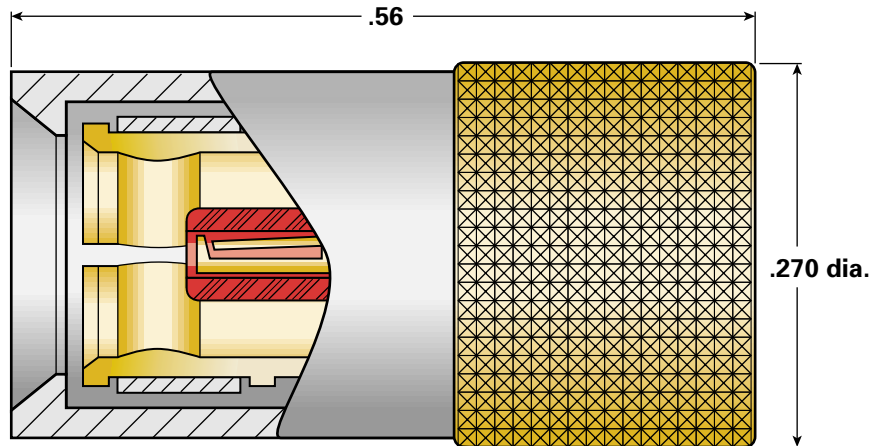
Miniature 75 Ω SMB Resistive Termination

This miniature 75Ω SMB resistive termination features a Teflon insulator for greater ruggedness than similar air-dielectric designs. The insulator is colored red for visual identification of its 75Ω impedance.

The closed-entry center contact and mating end hood provide further resistance to damage in case of misalignment during mating.

Other resistance values are also available—contact factory for more information.

Ordering Information



Plug type termination, resistor: 75Ω ±1%;
1 watt @ 65° F; derated linearly to 100 mW @ 125° C.

P/N 8736-2511-075

Specifications (MIL-PRF-39012 as applicable)

Materials:

Body components, outer contacts:

Brass per ASTM B16, alloy C36000, temper H02.

Center contact, outer contact retaining spring:

Beryllium copper per ASTM B196, alloy C173000, temper TD04.

Insulators: Teflon, red, TFE per ASTM D1710, Grade 1, Type II, Class A.

Finish:

Center contacts: Gold plated per MIL-G-45204, Type II, Class 1, Grade C, over .00010 to .00020 stress-free sulfamate nickel per QQ-N-290.

Body and outer contact: Gold plated per MIL-G-45204, Type II, Class 0, Grade C over .00010 to .00020 copper strike per MIL-C-14550.

Mechanical:

Force to engage: 14 pounds max.

Contact retention: 2 pounds min axial force.

Durability: 500 mating cycles.

Environmental (MIL-STD-202):

Temperature range: -65° C to +165° C.

Corrosion: Method 101, condition B, 5% salt solution.

Vibration (Method 204): Condition B.

Mechanical shock (Method 213): Condition B.

Thermal shock (Method 107): Condition B.

Electrical:

Impedance: 75Ω.

Resistor: Rod resistor; 75Ω ±1%; power rating 1 watt @ 65°F; derated linearly to 100 mW @ 125° C.

Frequency range: DC–4 GHz.

Insulation Resistance: 1,000 megohms minimum.

Dielectric Withstanding Voltage:

750VRMS @ sea level (RG-178 cable);

1000VRMS @ sea level (RG-316 cable).

Contact Resistance:

Initial: 6 milliohms maximum; after environmental test conditions: 8 milliohms maximum.

Corona level: 125V @70,000 ft.

RF highpot: 400 VRMS @ 5 MHz.

RF leakage: -55 dB min @ 2–3 GHz.

Insertion loss: .30 dB max @ 1.5 GHz.

*These specifications change periodically with updates to MIL-PRF-39012 requirements. Contact factory for latest specifications.



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