RF COAXIAL TERMINATION

SMA Male RF Terminator Series

DC–6 / 12 / 18 GHz | 50 Ω | 5 W

P/N VST-F-SMA0503-XX

PRODUCT OVERVIEW

A compact 50 Ω SMA male termination series rated at 5 W, with a finned aluminum-alloy radiator. Three frequency options are available up to 6, 12, and 18 GHz.



KEY FEATURES

- Three 50 Ω models with frequency-specific VSWR limits
- 5 W rated power with a finned aluminum-alloy radiator
- Gold-finished brass RF body and passivated stainless-steel screw sleeve

APPLICATIONS

- Termination of unused RF and microwave ports
- RF component and interconnect testing
- Matched port loads for couplers and circulators

ELECTRICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Frequency Range	**DC–6 / 12 / 18 GHz (by model)**
Nominal Impedance	**50 Ω**
VSWR (Max.)	**≤1.20:1 (6 / 12 GHz); ≤1.25:1 (18 GHz)**
Rated Power	**5 W**
Operating Temperature	**−55 °C to +200 °C**
Connector Interface	**SMA Male**
Dielectric Withstand Voltage	**350 VRMS**
Insulation Resistance	**≥5000 MΩ**
Mechanical Durability	**≥500 mating cycles**

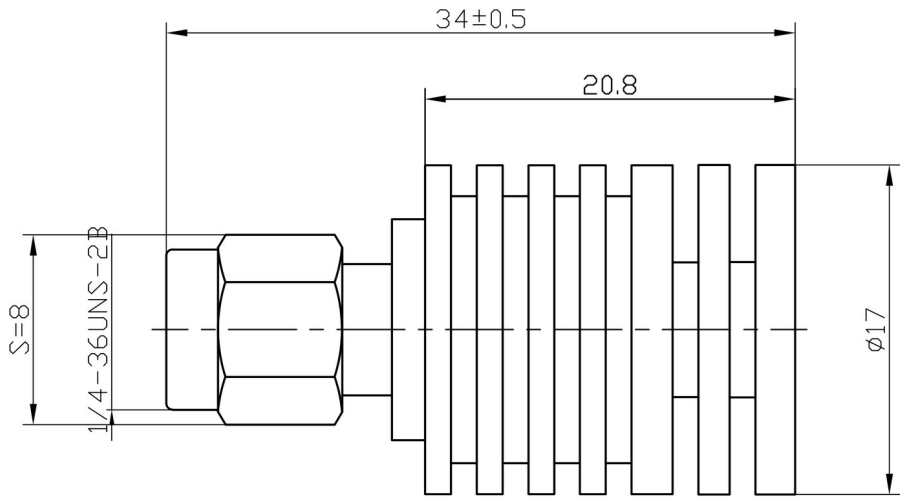
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Mechanical & Material Details

SMA Male RF Terminator Series / VST-F-SMA0503-XX

MECHANICAL OUTLINE

Dimensions in mm



MECHANICAL DATA	SPECIFICATION
Overall Length	**34 ± 0.5 mm**
Radiator Length	**20.8 mm**
Radiator Diameter	**Ø17 mm**
Wrench Flats	**8 mm (S8)**
Connector Thread	**1/4-36UNS-2B**

MATERIALS & FINISH	SPECIFICATION
Screw Sleeve	**Stainless steel, passivated**
Radiator	**Aluminum alloy, black chromium**
Body	**Brass, gold finish**
Insulator	**PTFE, natural**
Inner Contact	**Brass, gold finish**

ORDERING INFORMATION

MODEL	FREQUENCY RANGE	VSWR (MAX.)
VST-F-SMA0503-06	DC–6 GHz	≤1.20:1
VST-F-SMA0503-12	DC–12 GHz	≤1.20:1
VST-F-SMA0503-18	DC–18 GHz	≤1.25:1