1.85 MM PRECISION FIXED ATTENUATOR

1.85 mm Precision Fixed Attenuator Series

2 W | DC–67 GHz | 50 Ω



67 GHz	2 W
MAX FREQUENCY	POWER RATING
1.85 mm M–F	**≤ 1.45**
CONNECTOR CONFIGURATION	MAX VSWR

General Description: The Vinstronics VST-U-185XX0201-67G is a 1.85 mm precision fixed attenuator series covering DC–67 GHz. The series supports attenuation values from 1 to 10 dB, with a 20 dB option, and features 2 W power handling, 50 Ω impedance, passivated stainless-steel construction, and gold-plated beryllium-copper inner contacts.

Core Features

- **DC–67 GHz Coverage:** Broadband operation for RF and millimeter-wave test systems.
- **2 W Power Rating:** Rated power handling across the series.
- **Wide Attenuation Selection:** Attenuation values from 1 to 10 dB, plus a 20 dB option.
- Low VSWR: Maximum VSWR of 1.45 across the specified frequency range.
- **Passivated Stainless-Steel Construction:** Stainless-steel body and connector outer structure with passivated finish.
- **Gold-Plated BeCu Contacts:** Gold-plated beryllium-copper male and female inner contacts.

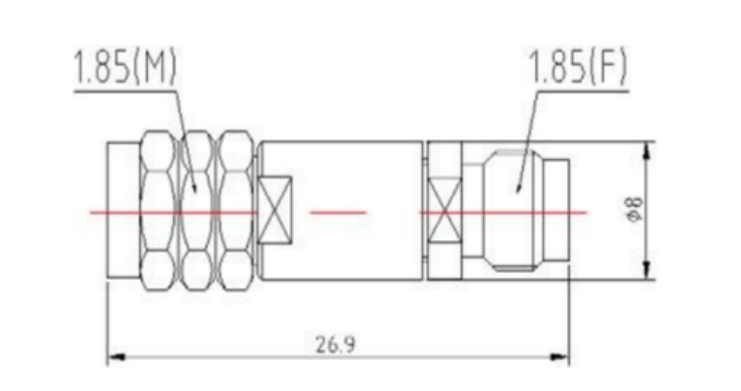
Target Applications

- **Millimeter-Wave Test Systems:** Signal level control in DC–67 GHz measurement paths.
- **VNA Measurement Chains:** Fixed attenuation for high-frequency measurement setups.
- **RF Module & Device Testing:** Fixed attenuation for component and subsystem evaluation.
- **1.85 mm Interconnect Systems:** Inline attenuation in precision RF and millimeter-wave assemblies.

ELECTRICAL PERFORMANCE	
Frequency Range	DC–67 GHz
Available Attenuation	1–10 dB / 20 dB
VSWR (Max)	1.45 : 1
Impedance	50 Ω
Power Rating	2 W
Temperature Range	-55°C to +125°C

MECHANICAL & MATERIALS	
Connector Configuration	1.85 mm Male-to-Female
Connector Outer Material	Stainless steel, passivated
Male Inner Contact	Beryllium copper, gold-plated
Female Inner Contact	Beryllium copper, gold-plated
Body Material	Stainless steel, passivated
Overall Size	Ø8 × 26.9 mm ±2%
Weight	5 g

MECHANICAL OUTLINE



ATTENUATION OPTIONS & TOLERANCES			
Attenuation Range / Value	1–9 dB	10 dB	20 dB
Attenuation Tolerance	-1.0 / +1.5 dB	-1.0 / +1.5 dB	-1.0 / +2.0 dB

Part-number logic: XX denotes the attenuation value in the VST-U-185XX0201-67G series.

ENGINEERING SUMMARY

26.9 mm	Ø8 mm	1-10 / 20 dB	1.85 mm M–F
OVERALL LENGTH	BODY DIAMETER	ATTENUATION OPTIONS	CONFIGURATION

- Passivated stainless steel
- Gold-plated BeCu contacts
- 50 Ω
- RoHS

ORDERING INFORMATION

VST-U-185XX0201-67G

1.85 mm Male-to-Female Precision Fixed Attenuator, 2 W, DC–67 GHz, 50 Ω

1–9 dB	10 dB	20 dB

XX denotes the attenuation value in the series part number.

Engineering Support: Attenuation selection, configuration review, and RF test documentation.

TEST & VERIFICATION

RF Test Report

Available upon request.