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RF Adapters Technical Data Sheet

ET12646

Configuration

- SMA Male Connector 1
- SMA Female Connector 2

Features

- Max VSWR of 1.25:1 up to 18 GHz
- SMA interface compliant with MIL-STD-348
- Epoxy captivation

- 50 Ohms
- Radius Right Angle Body Geometry
- Contact plating according to ASTM B-488
- Gold Plated Beryllium Copper Contact

Applications

General Purpose Test

Description

Ebeestock's ET12646 SMA male to SMA female radius right angle adapter, is part of our full line of RF components available for same-day shipping. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to SMA adapter has a male to female gender configuration. ET12646 SMA male to SMA female adapter is gold plated and operates to 18 GHz. The Ebeestock RF adapter provides excellent VSWR of 1.25:1 maximum. This low profile radius right angle SMA adapter allows for easier connections in tight spaces.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. An RF, microwave or millimeter wave adapter is connected to the equipment, and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Ebeestock also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR	1.25:1			
Insertion Loss			0.2	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
High Potential Voltage			1,000	Vrms
(at 5 MHz)				
Corona Discharge			375	Vrms
(at 70,000 ft)				
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Female Radius Right Angle Adapter, Gold Plated ET12646



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Insulation Resistance	5,000	MOhms

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size

 Length
 0.55 in [13.97 mm]

 Width
 0.312 in [7.92 mm]

 Height
 0.312 in [7.92 mm]

 Weight
 0.013 lbs [5.9 g]

Description	Connector 1	Connector 2 SMA Female		
Туре	SMA Male			
Polarity	Standard	Standard		
Interface Specification	MIL-STD-348	MIL-STD-348		
Contact Captivation Method	Ероху	Ероху		
Mating Cycles	500			
Hex Size	5/16 in.			
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]			

Material Specifications

Connector 1		Connec	ctor 2
Material	Plating	Material	Plating
SMA Male		SMA Female	
Beryllium Copper	Gold	Beryllium Copper	Gold
	ASTM B-488		ASTM B-488
PTFE		PTFE	
Outer Conductor		Stainless Steel	Gold
			ASTM B-488
Body Stainless Steel	Gold		
	ASTM B-488		
Coupling Nut Stainless Steel	Gold		
	ASTM B-488		
	Material SMA Male Beryllium Copper PTFE Stainless Steel	Material Plating SMA Male Beryllium Copper Gold	MaterialPlatingMaterialSMA MaleSMA FemaleBeryllium CopperGoldBeryllium CopperASTM B-488PTFEPTFEStainless SteelGold ASTM B-488Stainless SteelGold

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Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Humidity

MIL-STD-202, Method 106

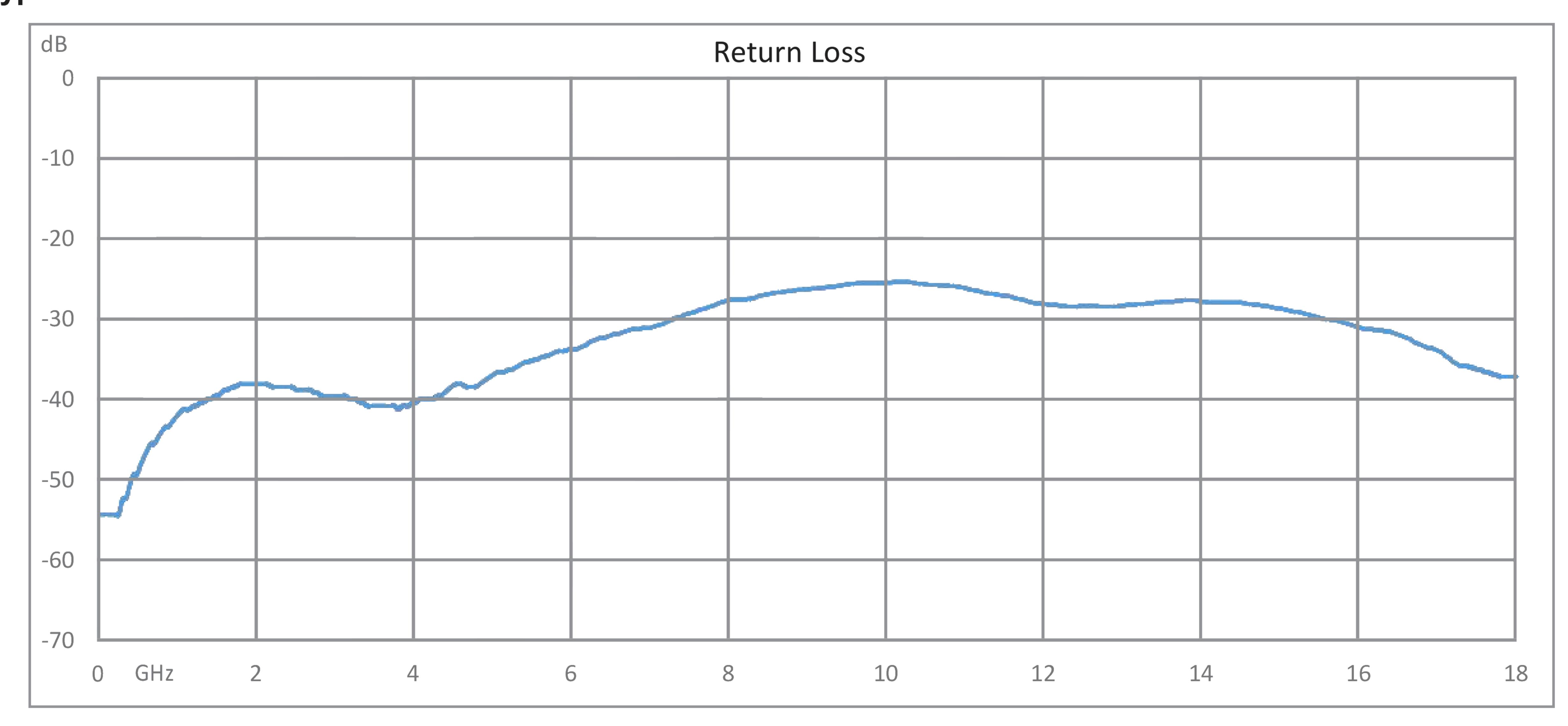
Shock
Vibration
Vibration
MIL-STD-202, Method 213, Test Cond. D
MIL-STD-202, Method 204, Test Cond. D
MIL-STD-202, Method 107, Test Cond. C
Salt Spray
MIL-STD-202, Method 101, Test Cond. B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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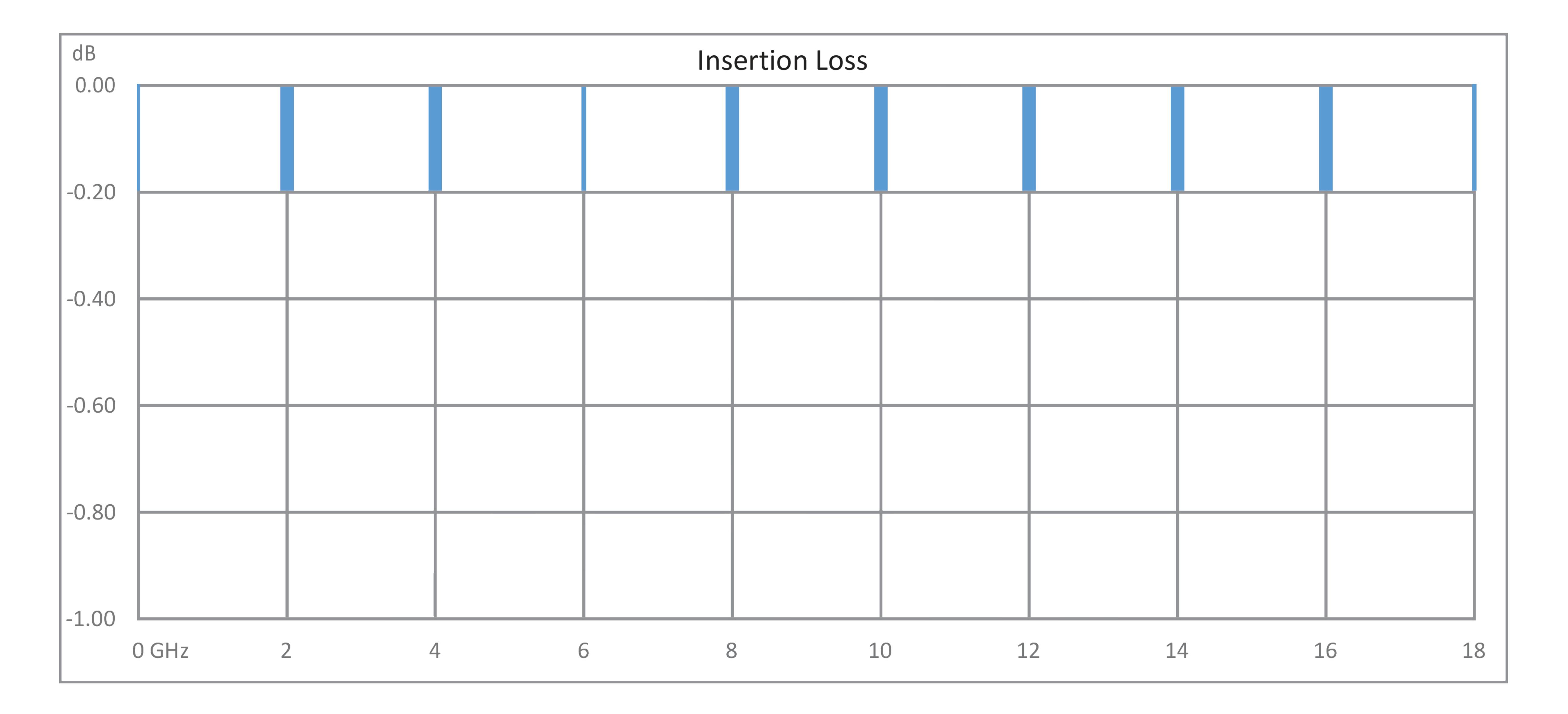


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SMA Male to SMA Female Radius Right Angle Adapter, Gold Plated from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMA Female Radius Right Angle Adapter, Gold Plated ET12646

URL: https://www.ebeestock.com/sma-male-to-sma-female-radius-right-angle-adapter-gold-plated-00 12646

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

ET12646 CAD Drawing

SMA Male to SMA Female Radius Right Angle Adapter, Gold Plated

