SMPM Pin Size 12 D38999 Contact for 0.085 Cable, 65 GHz Max Frequency



PEMACTRF12P05

Configuration

- Push-on Mini SMP Pin Connector
- 50 Ohms
- Connector Interface Types: D38999 Series I, D38999 Series III, D38999 Series IV, 0.085 Cable, RG405 Cable, M17/133-RG405 Cable
- Contact Size: 12

Features

- Fits any MIL-DTL-38999 size 12 insert
- Superior high frequency performance
- Blindmate connections
- Made from high quality materials giving a robust mechanical design
- Solderless inner connection to reduce assembly cost

Applications

- Civilian and Military Aerospace
- High Reliability Installations
- Harsh Environments

Description

The PEMACTRF12P05 from Pasternack is a D38999 size 12 pin contact that is designed for 0.085 cable. This RF coaxial contact has a solder/non-solder contact attachment method and is built to offer superior performance in demanding applications that require high-frequency data transmission. The mini SMP coax contact comes with an impedance of 50 Ohms and a maximum VSWR of 1.35.

Our RF contact has a maximum frequency of 65 GHz. This mini SMP RF contact is made up of beryllium copper material with gold plating. The PEMACTRF12P05 coax contact has a PTFE dielectric type and a dielectric withstanding voltage of 325 Vrms. Our mini SMP pin contact has a maximum insertion loss of 0.645 dB.

Pasternack's RF contact has an inner conductor and outer conductor made of beryllium copper. These RF coax contacts are specifically engineered to minimize signal loss and crosstalk, providing excellent impedance matching and reducing VSWR. Our mini SMP pin contact can operate at temperatures ranging from -55 to 125 degrees C.

PEMACTRF12P05 RF contact is part of more than one million RF, microwave, and millimeter wave parts in stock at Pasternack. This PEMACTRF12P05 coax contact is ready to buy and can be shipped worldwide the same business day as ordered from our warehouse in the United States. Pasternack maintains mini SMP pin RF contacts in various sizes and configurations, which allows them to be customized to meet the specific requirements of different applications. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF contact as per your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		65	GHz
VSWR			1.35:1	
Insertion Loss			0.645	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			325	Vrms
Insulation Resistance	5,000			MOhms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		50		Ohms

Installation

Description	Specification
Insertion Tool	M81969/8-09 or M81969/14-04
Extraction Tool	M81969/8-10 or M81969/14-04

Mechanical Specifications

Insertion Force	1.5lbs [680.39g]
Extraction Force	2.5lbs [1.13kg]
Mating Cycles	1,000 Cycles
Size	
Length	0.563 in [14.3 mm]
Width	0.181 in [4.6 mm]
Height	0.181 in [4.6 mm]
Weight	0.01 lbs [4.54 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Beryllium Copper	Gold
Body	Beryllium Copper	Gold

Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Salt Spray	MIL-STD-202, Method 101, Test Condition B, Solution 5%

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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SMPM Pin Size 12 D38999 Contact for 0.085 Cable, 65 GHz Max Frequency from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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: SMPM Pin Size 12 D38999 Contact for 0.085 Cable, 65 GHz Max Frequency PEMACTRF12P05

URL: https://www.pasternack.com/smpm-pin-size-12-d38999-contact-for-0.085-cable-65-ghz-max-frequency-pemactrf12p05-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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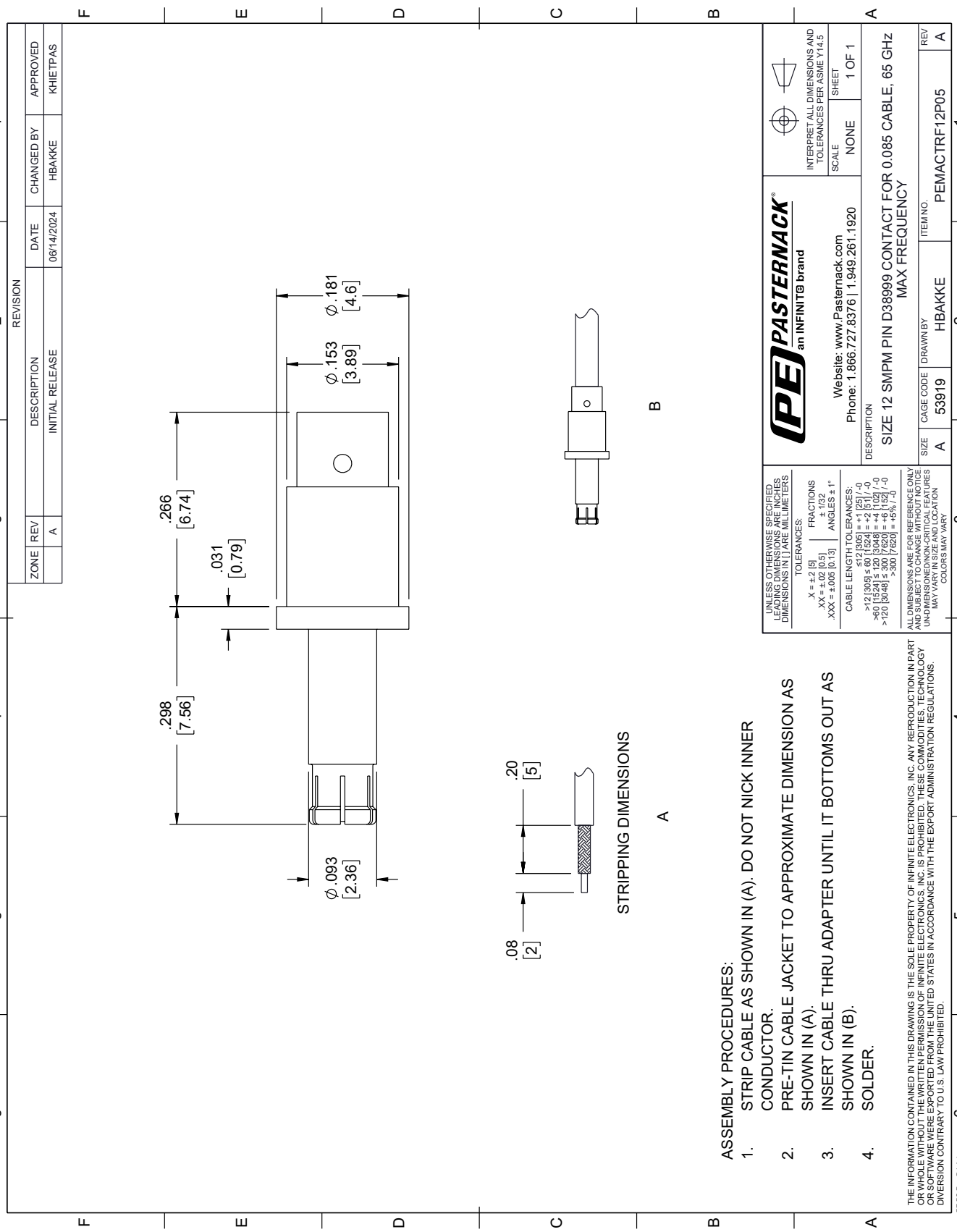
PEMACTRF12P05 CAD Drawing

SMPM Pin Size 12 D38999 Contact for 0.085 Cable, 65 GHz Max Frequency



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