

## BMA Plug Slide-On Hermetically Sealed Thread-In Mount



### PE45351

#### Configuration

- Slide-On BMA Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Pin
- Thread-In

#### Features

- Max. Operating Frequency 22 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact
- 51.18µ in. minimum contact plating
- Blind Mate Connector
- Hermetically Sealed
- Low-Engagement Force

#### Applications

- General Purpose Test
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

#### Description

Pasternack's PE45351 BMA Plug Slide-On Hermetically Sealed Connector Solder Attachment for Pin Cable, is part of our full line of RF components available for same-day shipping. Our BMA plug connector operates up to a maximum frequency of 22 GHz and offers excellent VSWR of 1.25:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our BMA plug thread-in connector PE45351 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
VSWR			1.25:1	
Insertion Loss			0.32	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.47 in [11.94 mm]
Width	0.25 in [6.35 mm]
Weight	0.008 lbs [3.63 g]
Mating Cycles	1,000 Cycles

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#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 51.18µ in. minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	
Gasket	Aluminum Alloy	

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +125 deg C

Hermetic Seal

1E-8 atm. cm<sup>3</sup>/s (Helium) using borosilicate glass

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

BMA Plug Slide-On Hermetically Sealed Thread-In Mount 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.

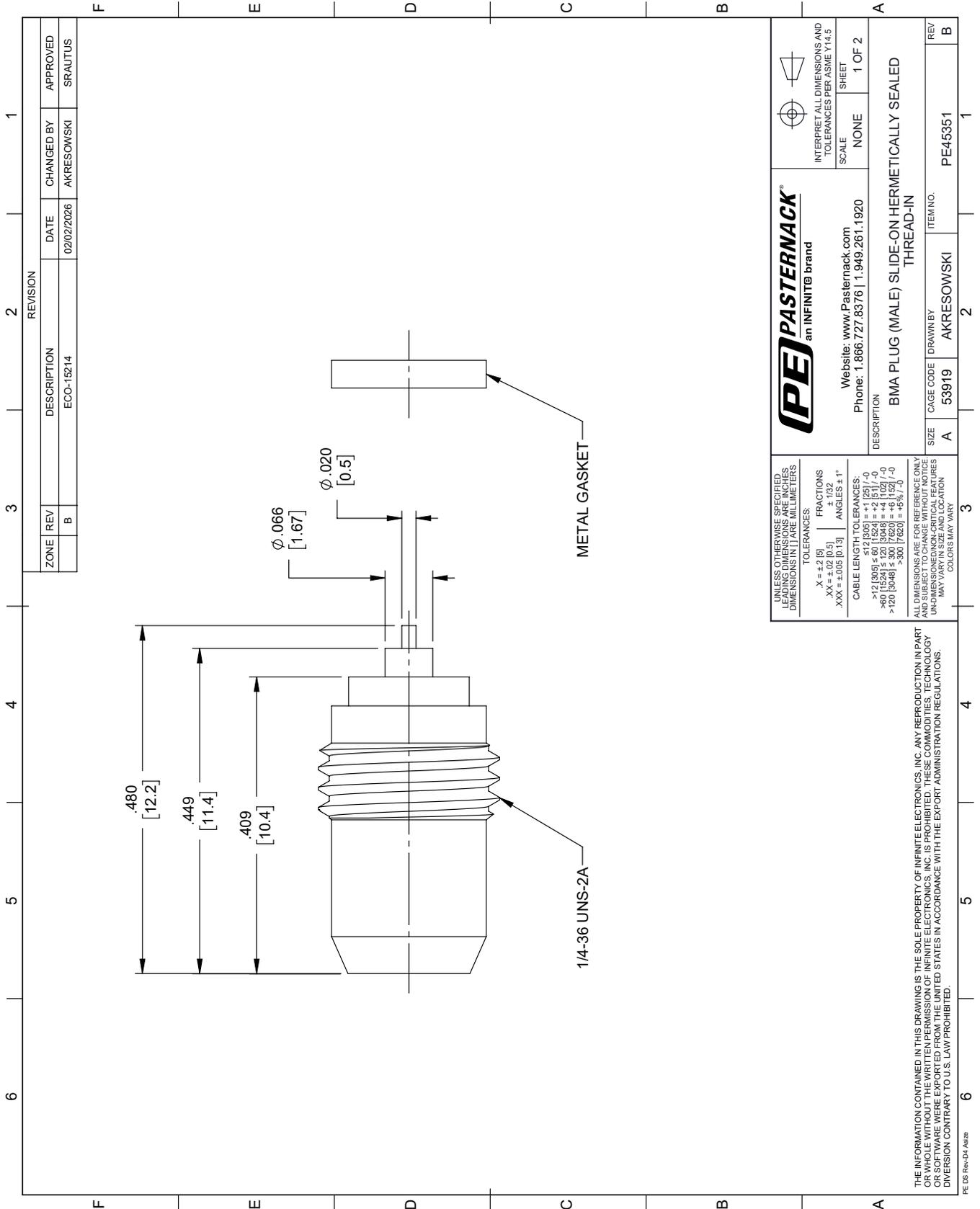
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Plug Slide-On Hermetically Sealed Thread-In Mount PE45351](#)

URL: <https://www.pasternack.com/bma-plug-slide-on-connector-pe45351.html>

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 implement 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.

# PE45351 CAD Drawing

BMA Plug Slide-On Hermetically Sealed Thread-In Mount



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	ECO-15214	AKRESOWSKI	SRAUTUS
	B				

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE SHEET: 1 OF 2

DESCRIPTION: BMA PLUG (MALE) SLIDE-ON HERMETICALLY SEALED THREAD-IN

SIZE	A	CAGE CODE	53919	DRAWN BY	AKRESOWSKI	ITEM NO.	PE45351
REV	B						

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5] FRACTIONS ± 1/32  
 .XX = ±.02 [0.5] ± 1/32  
 .XXX = ±.005 [0.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±.125 [3.175] / -0  
 >60 [1524] ≤ 120 [3048] = ±.102 [2.59] / -0  
 >120 [3048] ≤ 300 [7620] = ±.102 [2.59] / -0  
 >300 [7620] = ±.075 [1.9] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-D4 Add2

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