

BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG178, RG196



RF Connectors Technical Data Sheet

PE45315

Configuration

- Slide-On BMA Plug Connector
- •50 Ohms
- Straight Body Geometry
- RG178, RG196 Interface Type

Features

- Max. Operating Frequency 12.4 GHz
- Good VSWR of 2.12:1
- Gold Plated Beryllium Copper Contact

- Crimp/Solder Attachment
- Bulkhead
- 11 mm Hex
- •51.18µ in. minimum contact plating
- Blind Mate Connector
- Low-Engagement Force

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

Description

Pasternack's PE45315 BMA plug slide-on bulkhead connector with crimp/solder attachment for RG178 and RG196 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 12.4 GHz and offers good VSWR of 2.12:1. 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. This BMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our BMA plug bulkhead connector PE45315 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		12.4	GHz
VSWR			2.12:1	
Insertion Loss			0.1	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG178, RG196 PE45315

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RF Connectors Technical Data Sheet

PE45315

Mechanical Specifications

Size

 Length
 0.96 in [24.38 mm]

 Width/Dia.
 0.43 in [10.92 mm]

 Weight
 0.015 lbs [6.8 g]

 Mating Cycles
 1,000 Cycles

Material Specifications

Description	Material	Plating	
Contact	Beryllium Copper	Gold 51.18µ in. minimum	
Insulation	PTFE		
Outer Conductor	Passivated Stainless Steel		
Body	Passivated Stainless Steel		
Washer	Brass	Nickel	
O-Ring	Silicone Rubber		

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

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RF Connectors Technical Data Sheet

PE45315

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

BMA Plug Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG178, RG196 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 Bulkhead Mount Slide-On Connector Crimp/Solder Attachment for RG178, RG196 PE45315

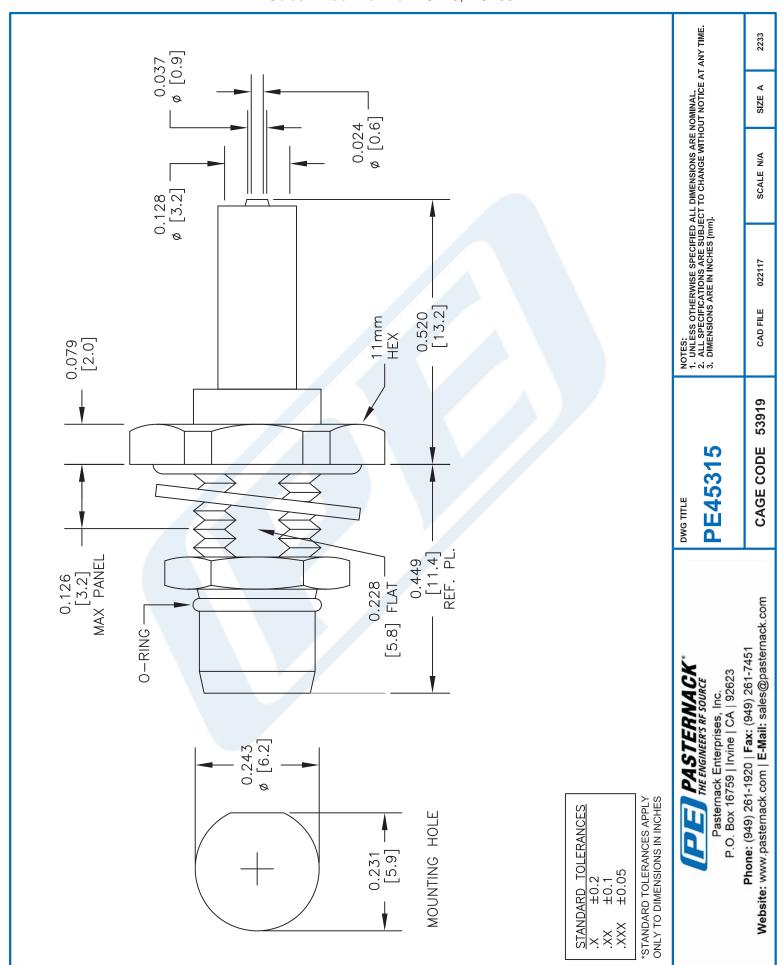
URL: https://www.pasternack.com/bma-plug-slide-on-rg178-rg196-connector-pe45315-p.aspx

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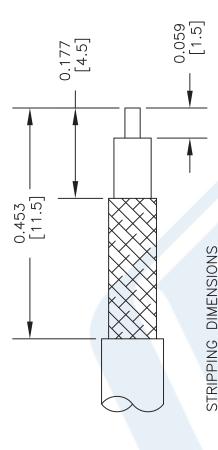
PE45315 CAD Drawing

BMA Plug Bulkhead Mount Slide-On Connector Crimp/ Solder Attachment for RG178, RG196



PE45315 CAD Drawing

BMA Plug Bulkhead Mount Slide-On Connector Crimp/ Solder Attachment for RG178, RG196



ASSEMBLY PROCEDURES

- 1. STRIP CABLE AS SHOWN, SLIDE HEAT SHRINK AND FERRULE (1) ONTO CABLE.
- 2. FLARE END OF CABLE BRAID & SLIDE METAL SPACER (2) & PTFE (3) SPACER OVER CABLE DIELECTRIC.
- PTFE SPACER, CRIMP CONTACT TO CABLE CENTER CONDUCTOR. 3. THE CONTACT (4) SHOULD BUTT AGAINST THE DIELECTRIC &
- ASSEMBLY FORWARD UNTIL CONTACT SNAPS INTO PLACE. SLIDE FERRULE PORTION OF BODY SLIDES UNDER BRAID, PUSH CABLE FERRULE OVER BRAID AND UP AGAINST CONNECTOR BODY & 4. INSTALL CABLE ASSEMBLY INTO BODY SO THAT THE INNER CRIMP.

CRIMP SIZE REQUIRED

FERRULE: .100" HEX CRIMP TOOL

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STANDARD TOLERANCES

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SMP Female Connector Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE44655

Configuration

- SMP Female Connector
- MIL-STD-348
- 50 Ohms

- Straight Body Geometry
- RG178, RG196 Interface Type
- Solder/Solder Attachment

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact

- Contact plating according to MIL-G-45204
- Blind Mate Connector

Applications

General Purpose Test

Custom Cable Assemblies

Description

Pasternack's PE44655 SMP female connector with solder/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMP female connector operates up to a maximum frequency of 3 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 SMP female connector PE44655 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		3	GHz
VSWR			1.25:1	

Mechanical Specifications

Size

 Length
 0.25 in [6.35 mm]

 Width/Dia.
 0.135 in [3.43 mm]

 Weight
 0.003 lbs [1.36 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Female Connector Solder Attachment for RG178, RG196 PE44655

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SMP Female Connector Solder Attachment for RG178, RG196

RF Connectors Technical Data Sheet

PE44655

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold MIL-G-45204
Insulation	PTFE	
Body	Beryllium Copper	Gold MIL-G-45204

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMP Female Connector Solder Attachment for RG178, RG196 from Pasternack 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.

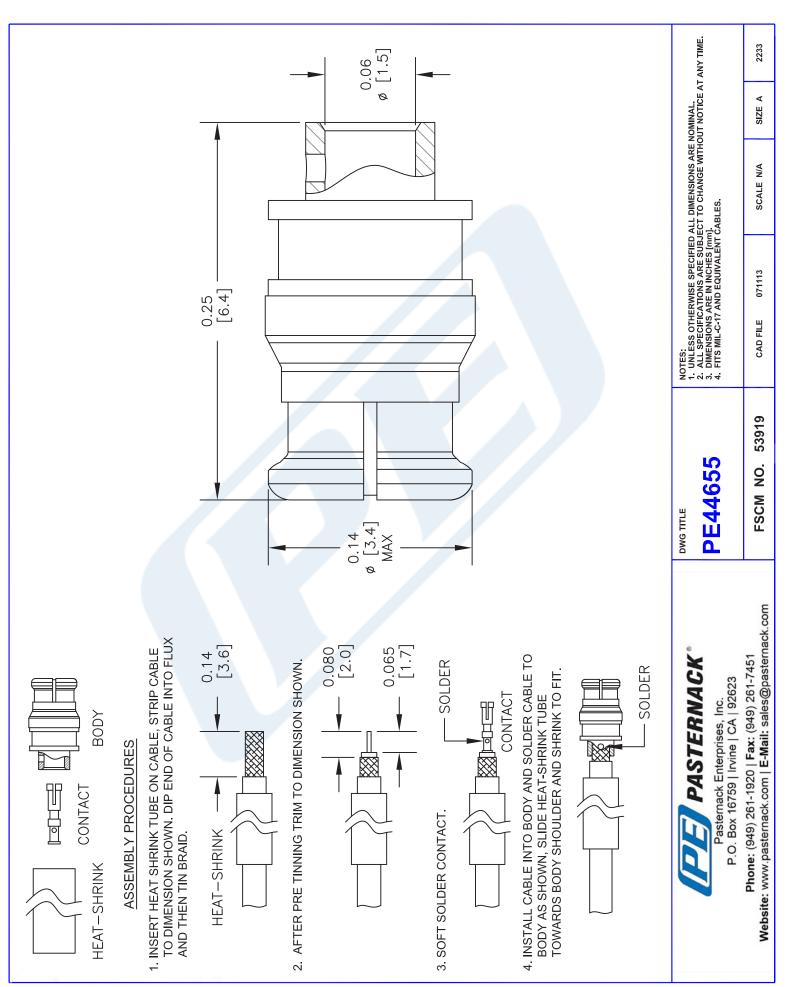
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Female Connector Solder Attachment for RG178, RG196 PE44655

URL: https://www.pasternack.com/smp-female-standard-rg178-rg196-connector-pe44655-p.aspx

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PE44655 CAD Drawing







Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG178B/U

Configuration

- Flexible Cable
- 1 Shield(s)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		29.4 [96.46]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Attenuation, Typ	13.81	27.8	44.41	78.4		dB/100ft
	45.31	91.21	145.7	257.22		dB/100m

Mechanical Specifications

 Diameter
 0.072 in [1.83 mm]

 Weight
 0.005 lbs/ft [0.01 Kg/m]

Min. Bend Radius (Repeated) 0.4 in [10.16 mm]

Construction Specifications

-		
Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.012 in [0.3 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.034 in [0.86 mm]
First Shield	Silver Plated Copper Braid	0.051 in [1.3 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U

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Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

RF Cables Technical Data Sheet

RG178B/U

 Jacket
 FEP, Tan
 0.072 in [1.83 mm]

Environmental Specifications

Temperature

Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket 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: Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket RG178B/U

URL: https://www.pasternack.com/flexible-0.075-rg178-50-ohm-coax-cable-fep-jacket-rg178b-u-p.aspx

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RG178B/U CAD Drawing

Flexible RG178 Coax Cable Single Shielded with Tan FEP Jacket

