

PASTERNACK

Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1021-6

Pasternack's WMCX 1.6 series ultra-miniature coaxial cable assemblies (also called 1.6mm WMCX) have a mated connection height of only 1.6mm. They are constructed using a flexible micro-coax cable and are compatible with ultra-miniature products from companies such as Hirose and IPEX cable manufactures. Our WMCX 1.6 plug connectors are comparable in design to the Hirose W.FL series of connectors and the IPEX MHFIII series connectors. Pasternack also provides three additional connector options for our between-series 0.81mm micro-coax jumper cables including UMCX 2.5, WMCX 1.6 and HMCX32 1.2 low profile connectors with differing form factors and mated heights.

Our WMCX 1.6 between series cables can be ordered with Female Bulkhead versions of SMA, Reverse Polarity SMA and Type N connectors as well as an SMA Male option. These cables provide a convenient connector interface for applications that require and RF signal to be routed to an external RF component such as an antenna or to provide a test point for the RF printed circuit board. These W.FL and MHFIII compatible WMCX 1.6 cable assemblies are available from stock in standard lengths, and custom lengths are available upon request. Standard length WMCX 1.6 cables ship the same day they are ordered.

Features

- 1.6mm mated assembly height
- Operate from DC to 6GHz
- · 100% RF and Continuity tested

- Compatible with Hirose W.FL and IPEX MHFIII products
- · Small foot print with easy snap on/off mating

Applications

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems
- PDA/PCS/Cellular Handset applications
- Wireless Communications systems (LAN,GSM,PCS, WCDMA, UMTS)

Configuration

Connector 1 Connector 2 Cable Type SMA Female Reverse Polarity Bulkhead WMCX 1.6 Plug 0.81mm

Frequency Range Impedance Max VSWR

Electrical Specifications

DC to 6 GHz 50 Ohms 1.5:1

Performance by Frequency

Frequency 1

 Frequency
 250 MHz

 VSWR
 1.35:1

 Return Loss
 16.54 dB

 Insertion Loss
 0.55 dB

Frequency 2

Frequency 500 MHz VSWR 1.35:1 Return Loss 16.54 dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-6

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1021-6

Insertion Loss 0.78 dB

Frequency 3

Frequency 1000 MHz **VSWR** 1.35:1 Return Loss 16.54 dB Insertion Loss 1.25 dB

Frequency 4

Frequency 2.5 GHz **VSWR** 1.35:1 Return Loss 16.54 dB Insertion Loss 1.9 dB

Frequency 5

6 GHz Frequency **VSWR** 1.5:1 Return Loss 13.98 dB Insertion Loss 2.89 dB

Mechanical Specifications

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Length 6 in [152.4 mm]

Cable

Cable Type 0.81mm Inner Conductor Type Stranded Cable Inner Conductor Copper, Silver No of Shields Cable Outer Conductor 1 **Tinned Copper** Dielectric Type **FEP** Jacket Material **FEP**

Jacket Diameter

0.032 in [0.81 mm]

Connector 1

Type SMA Female Reverse Polarity Bulkhead

Configuration Straight Bulkhead Mount Method

Beryllium Copper, Gold Inner Conductor Material and Plating

Body Material and Plating Brass, Gold

Connector 2

Type WMCX 1.6 Plug

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-6

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1021-6

Configuration

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant Yes
REACH Compliant 12/19/2011

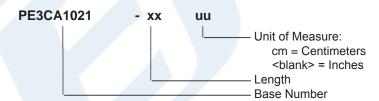
Plotted and Other Data

Notes:

Values at +25 °C, sea level

How to Order

Part Number Configuration:



Straight

Example: PE3CA1021-12 = 12 inches long cable

PE3CA1021-100cm = 100 cm long cable

Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS 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: Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-6

URL: http://www.pasternack.com/sma-female-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1021-6-p.aspx

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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PE3CA1021-6 CAD Drawing

Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 6 Inch Length Using 0.81mm Coax, RoHS

