

# Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS

# **TECHNICAL DATA SHEET**

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

### Applications

Configuration Connector 1

Connector 2

Cable Type

Impedance

Max VSWR

Frequency 1

Frequency VSWR

Return Loss

Insertion Loss

Frequency 2 Frequency

Return Loss

VSWR

Electrical Specifications Frequency Range

Performance by Frequency

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

Compatible with Hirose W.FL and IPEX MHFIII prod-

Small foot print with easy snap on/off mating

SMA Female Reverse Polarity Bulkhead WMCX 1.6 Plug 0.81mm

DC to 6 GHz 50 Ohms 1.5:1

250 MHz

1.35:1 16.54 dB

0.55 dB

500 MHz

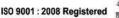
1.35:1 16.54 dB

ucts

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 3 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-3

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







**PE3CA1021-3** 



# Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS



PE3CA1021-3

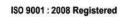
# **TECHNICAL DATA SHEET**

Insertion Loss	0.78 dB
<b>Frequency 3</b> Frequency VSWR Return Loss Insertion Loss	1000 MHz 1.35:1 16.54 dB 1.25 dB
<b>Frequency 4</b> Frequency VSWR Return Loss Insertion Loss	2.5 GHz 1.35:1 16.54 dB 1.9 dB
Frequency 5 Frequency VSWR Return Loss Insertion Loss	6 GHz 1.5:1 13.98 dB 2.89 dB
Mechanical Specifications	
<b>Temperature</b> Temperature Operating Range	-55 to +125 deg C
Size Length	3 in [76.2 mm]
<b>Cable</b> Cable Type Inner Conductor Type Cable Inner Conductor No of Shields Cable Outer Conductor 1 Dielectric Type Jacket Material Jacket Diameter	0.81mm Stranded Copper, Silver 1 Tinned Copper FEP FEP FEP 0.032 in [0.81 mm]
<b>Connector 1</b> Type Configuration Mount Method Inner Conductor Material and Plating Body Material and Plating	SMA Female Reverse Polarity Bulkhead Straight Bulkhead Beryllium Copper, Gold 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 3 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-3

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 3 Inch Length Using 0.81mm Coax, RoHS



#### **TECHNICAL DATA SHEET PE3CA1021-3** Configuration Straight 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 **PE3CA1021** Part Number Configuration: ΧХ uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** Example: PE3CA1021-12 = 12 inches long cable PE3CA1021-100cm = 100 cm long cable

Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 3 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 3 Inch Length Using 0.81mm Coax, RoHS PE3CA1021-3

URL: http://www.pasternack.com/sma-female-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1021-3-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



### PE3CA1021-3 CAD Drawing Reverse Polarity SMA Female Bulkhead to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS

