Sales@Pasternack.com • Techsupport@Pasternack.com

Return Loss

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

SMA Male 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.

PDA/PCS/Cellular Handset

applications

ucts

SMA Male

0.81mm

WMCX 1.6 Plug

DC to 6 GHz

16.54 dB

50 Ohms

1.5:1

Features

- 1.6mm mated assembly height
- Operate from DC to 6GHz

PASTERNACK[®] THE ENGINEER'S RF SOURCE

100% RF and Continuity tested

Applications

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems
- Configuration
 - Connector 1 Connector 2 Cable Type

Electrical Specifications

Frequency Range Impedance Max VSWR

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS PE3CA1029-3

PE3CA1029-3 REV 1.1





PE3CA1029-3



Compatible with Hirose W.FL and IPEX MHFIII prod-

Wireless Communications

WCDMA, UMTS)

systems (LAN.GSM.PCS.

Small foot print with easy snap on/off mating



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PE3CA1029-3

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TECHNICAL DATA SHEET

	Insertion Loss	0.78 dB
		0.10 42
	Frequency 3	
	Frequency VSWR	1000 MHz 1.35:1
	Return Loss	16.54 dB
	Insertion Loss	1.25 dB
		1.20 0.0
	Frequency 4	
	Frequency	2.5 GHz
	VSWR	1.35:1
	Return Loss	16.54 dB
	Insertion Loss	1.9 dB
	Frequency 5	
	Frequency	6 GHz
	VSWR	1.5:1
	Return Loss	13.98 dB
	Insertion Loss	2.89 dB
Ме	chanical Specifications	
	Temperature	
	Temperature Operating Range	-55 to +125 deg C
	Size	
	Length	3 in [76.2 mm]
	Cable	
	Cable Type	0.81mm
	Inner Conductor Type	Stranded
	Cable Inner Conductor	Copper, Silver
	No of Shields	1
	Cable Outer Conductor 1	Tinned Copper
	Dielectric Type	FEP
	Jacket Material	FEP
	Jacket Diameter	0.032 in [0.81 mm]
	Connector 1	
	Туре	SMA Male
	Configuration	Straight
	Inner Conductor Material and Plating	Brass, Gold
	Coupling Nut Material and Plating	Brass, Gold
	Body Material and Plating	Brass, Gold
	Connector 2	
	Туре	WMCX 1.6 Plug

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SMA Male to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET PE3CA1029-3 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 **PE3CA1029** Part Number Configuration: ΧХ uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** Example: PE3CA1029-12 = 12 inches long cable PE3CA1029-100cm = 100 cm long cable

SMA Male 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.

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URL: http://www.pasternack.com/sma-male-wmcx-1.6-plug-0.81mm-cable-assembly-pe3ca1029-3-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.

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PE3CA1029-3 CAD Drawing SMA Male to WMCX 1.6 Plug Cable 3 Inch Length Using 0.81mm Coax, RoHS

