Insertion 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 UMCX 2.1 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

Pasternack's UMCX 2.1 series ultra-miniature coaxial cable assemblies (also called 2.1mm UMCX) have a mated connection height of only 2.1mm. They are constructed using a flexible micro-coax cable and are compatible with ultra-miniature products from companies such as Hirose, IPEX, and other UMCX connector and cable manufactures. Our UMCX 2.1 plug connectors are comparable in design to the Hirose U.FL series of connectors and the IPEX MHF 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 UMCX 2.1 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 U.FL and MHF compatible UMCX 2.1 cable assemblies are available from stock in standard lengths, and custom lengths are available upon request. Standard length UMCX 2.1 cables ship the same day they are ordered.

PDA/PCS/Cellular Handset

SMA Male

0.81mm

UMCX 2.1 Plug

DC to 6 GHz

0.78 dB

50 Ohms

1.5:1

applications

100% RF and Continuity tested

Compatible with Hirose U.FL and IPEX MHF products

Wireless Communications

WCDMA, UMTS)

systems (LAN, GSM, PCS,

Small foot print with easy snap on/off mating

Features

- 1.2mm, 1.6mm, 2.1mm and 2.5mm mated assembly height's
- Operate from DC to 6GHz

PASTERNACK[®] THE ENGINEER'S RF SOURCE

Applications

- Wireless LAN, Mini PCI
- Mobile Antenna/GPS/Radio Systems

Configuration

Connector 1 Connector 2 Cable Type

Electrical Specifications

Frequency Range Impedance Max VSWR

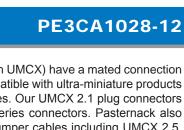
Performance by Frequency

Frequency 1	
Frequency	250 MHz
VSWR	1.35:1
Return Loss	16.54 dB
Insertion Loss	0.55 dB
Frequency 2	
Frequency 2 Frequency	500 MHz
	500 MHz 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 UMCX 2.1 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS PE3CA1028-12

ISO 9001 : 2008 Registered









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PE3CA1028-12

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	
Frequency	6 GHz
VSWR Baturn Loop	1.5:1
Return Loss Insertion Loss	13.98 dB 2.89 dB
Insertion Loss	2.09 00
chanical Specifications	
Temperature	
Temperature Operating Range	-55 to +125 deg C
Size	
Length	12 in [304.8 mm]
Cable	
Cable Type	0.81mm
Inner Conductor Type	Stranded
Cable Inner Conductor No of Shields	Copper, Silver
Cable Outer Conductor 1	Tinned Copper
Dielectric Type	FEP
Jacket Material	FEP
Jacket Diameter	0.032 in [0.81 mm]
	0.00 <u>7</u> [0.0]
Connector 1	SMA Mala
Type Configuration	SMA Male Straight
Inner Conductor Material and Plating	Brass, Gold
Coupling Nut Material and Plating	Brass, Gold
Body Material and Plating	Brass, Gold
Connector 2	
Туре	UMCX 2.1 Plug
Configuration	Straight
-	-
Click the following link (or enter part number in "SI ing price, inventory and certifications: SMA Male to	EARCH" on website) to obtain additional part information inclu

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PE3CA1028-12

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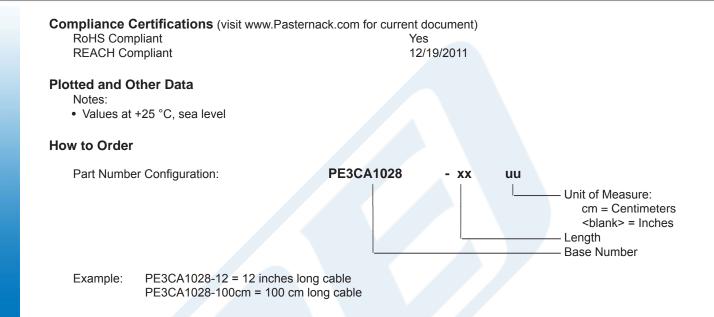




SMA Male to UMCX 2.1 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS

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PE3CA1028-12



SMA Male to UMCX 2.1 Plug Cable 12 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-umcx-2.1-plug-0.81mm-cable-assembly-pe3ca1028-12-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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PE3CA1028-12 CAD Drawing SMA Male to UMCX 2.1 Plug Cable 12 Inch Length Using 0.81mm Coax, RoHS

