

STERNOSK STERNOSK

UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1051

Pasternack's UMCX 2.5 series ultra-miniature coaxial cable assemblies (also called 2.5mm UMCX) have a mated connection height of only 2.5mm. They are constructed using a flexible micro-coax cable and are compatible with products such as Hirose U.FL, IPEX MHF and other UMCX connector and cable manufactures. Our UMCX 2.5 plug connectors are comparable in design to the Hirose U.FL connectors and the IPEX MHF series connectors. Pasternack also provided three additional connector options for our in-series 0.81mm micro-coax jumper cables including UMCX 2.1, WMCX 1.6 and HMCX32 1.2 connectors. UMCX 2.5 are available in the following coax types; 0.81mm, 1.13mm, 1.37mm, RG178 and RG178-DS.

These small form factor, flexible micro-coax jumper cables provide a low profile RF connection perfect for board-to-board connectivity such as mini-PCI circuit boards. With performance up to 6 GHz, these UMCX jumper cables are ideal for wireless applications including Wi-Fi, Bluetooth, GPS, ZigBee, LTE and many others. Our UMCX 2.5 cable assemblies are available from stock in standard lengths, and custom lengths are available upon request. Standard length UMCX 2.5 cables ship same day they are ordered.

Features

- · 2.5mm mated assembly height
- · Operate from DC to 6 GHz
- 100% RF and Continuity tested

- Compatible with Hirose U.FL and IPEX MHF 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 UMCX 2.5 Plug UMCX 2.5 Plug 0.81mm

Electrical Specifications

Frequency Range Impedance Max VSWR DC to 6 GHz 50 Ohms 1.55:1

Performance by Frequency

Frequency 1

 Frequency
 250 MHz

 VSWR
 1.4:1

 Return Loss
 15.56 dB

 Instantion Loss
 1.4:1

Insertion Loss 0.25 dB/ft [0.82 dB/m]

Frequency 2

 Frequency
 500 MHz

 VSWR
 1.4:1

 Return Loss
 15.56 dB

Insertion Loss 0.48 dB/ft [1.57 dB/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS PE3CA1051

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



ISO 9001: 2008 Registered



UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1051

Frequency 3

Frequency 1000 MHz VSWR 1.4:1 Return Loss 15.56 dB

Insertion Loss 0.95 dB/ft [3.12 dB/m]

Frequency 4

 Frequency
 2.5 GHz

 VSWR
 1.4:1

 Return Loss
 15.56 dB

Insertion Loss 1.6 dB/ft [5.25 dB/m]

Frequency 5

 Frequency
 6 GHz

 VSWR
 1.55:1

 Return Loss
 13.32 dB

Insertion Loss 2.59 dB/ft [8.5 dB/m]

Mechanical Specifications

Temperature

Temperature Operating Range -55 to +125 deg C

Size

Cable

Cable Type0.81mmInner Conductor TypeStrandedCable Inner ConductorCopper, Silver

No of Shields

Cable Outer Conductor Tinned Copper

Dielectric Type FEP Jacket Material FEP

Jacket Diameter 0.032 in [0.81 mm]

Connector 1

Type UMCX 2.5 Plug Configuration Straight

Connector 2

Type UMCX 2.5 Plug Configuration Straight

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

RoHS Compliant Yes

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS PE3CA1051







UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS

TECHNICAL DATA SHEET

PE3CA1051

Plotted and Other Data

Notes:

• Values at +25 °C, sea level

How to Order

Part Number Configuration:

PE3CA1051
- xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3CA1051-12 = 12 inches long cable PE3CA1051-100cm = 100 cm long cable

UMCX 2.5 Plug to UMCX 2.5 Plug Cable 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: UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS PE3CA1051

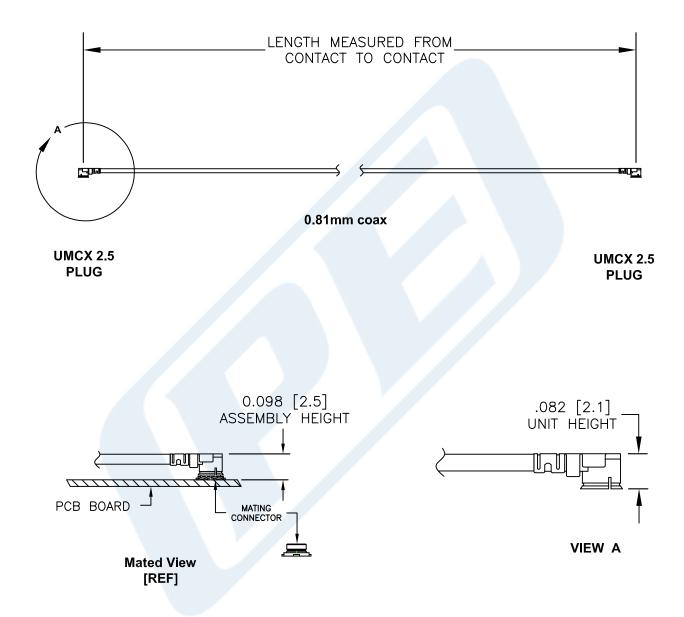
URL: http://www.pasternack.com/umcx-2.5-plug-umcx-2.5-plug-0.81mm-cable-assembly-pe3ca1051-p.aspx

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.



PE3CA1051 CAD Drawing

UMCX 2.5 Plug to UMCX 2.5 Plug Cable Using 0.81mm Coax, RoHS



UMCX connectors are similar to U.FL*
*U.FL is a Registered Trademark of
Hirose Electronic Group

