Mini SMP Female to 2.4mm Male VITA 67 Cable Using PE-P047HF Coax with HeatShrink



PE3C9729

Configuration

- Connector 1: Mini SMP Female
- Connector 2: 2.4mm Male
- Coax Cable Group: 2
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Standard MIL-STD-348 SMPM interface
- Push-on/snap-on mating style for quick installation
- Mini SMP (SMPM) Female compatible with VITA 67 PE45531/ PE45532/PE45537 (4-port) and PE45533/PE45534/PE45538 (8-port) blocks
- Mini SMP Male compatible with VITA 67 PE45531/PE45532/ PE45537 (4-port) and PE45533/PE45534/PE45538 (8-port) blocks

Applications

- General Purpose
- Laboratory Use
- Scientific research
- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

Description

Pasternack's PE3C9729 Mini SMP female to 2.4mm male cable using PE-P047HF coax is part of our full line of RF components available for same-day shipping. Pasternack's VITA 67 assemblies are high-density, high-performance RF cable assemblies that fit into VITA 67 blocks and attach to the PCB board which makes it ideal for applications where tight bends and flexure is required. This Pasternack Mini SMP to 2.4mm cable assembly has a female to male gender configuration with 50 ohm flexible coax. The PE3C9729 Mini SMP female to 2.4mm male cable assembly operates to 40 GHz.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.16:1	
Velocity of Propagation		70		%
RF Shielding	90			dB

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	0.539	0.786	1.169	1.754	2.683	dB/ft
	1.77	2.58	3.84	5.75	8.8	dB/m

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Cable Assembly

Weight	0.075 lbs [34.02 g]

Cable

Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	FEP
Shield Layer 1	Silver Plated Copper Tape

Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	2.4mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	ASTM B488	50 µin minimum
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold over Nickel
Body Plating Specification	ASTM B488	50 µin minimum

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C9729 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C9729 — Base Number

Example: PE3C9729-12 = 12 inches long cable
PE3C9729-100cm = 100 cm long cable

Mini SMP Female to 2.4mm Male VITA 67 Cable Using PE-P047HF Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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: Mini SMP Female to 2.4mm Male VITA 67 Cable Using PE-P047HF Coax with HeatShrink PE3C9729

URL: https://www.pasternack.com/mini-smp-female-to-2.4mm-male-vita-67-cable-using-pe-p047hf-with-heatshrink-pe3c9729-p.aspx

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

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PE3C9729 CAD Drawing

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