



VITA 67.3 Mini SMP (SMPM) Female to SMPS Female Adapter

RF Adapters Technical Data Sheet

PE49821

Configuration

- Mini SMP Female Connector 1
- SMPS Female Connector 2
- 50 Ohm
- VITA 67.3 Design
- Straight Body Geometry

Features

- Max VSWR of 1.35:1 up to 65 GHz
- Gold Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test
- Allows Connection In Series

Description

Pasternack's PE49821 precision Mini SMP female to SMPS female VITA 67.3 backplane adapter is part of our full line of RF components available for same-day shipping. Our Mini SMP female to SMPS female adapter has a female to female gender configuration built of durable stainless steel in a precision design. PE49821 Mini SMP female to SMPS female adapter operates to 63.5 GHz. The Pasternack RF adapter provides excellent VSWR of 1.35 maximum.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. An RF, microwave or millimeter wave adapter is connected to the equipment, and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Pasternack also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC | | 65 | GHz |
| Impedance | | 50 Ohm | | |
| VSWR | | | 1.35:1 | |

Mechanical Specifications

| Size | |
|--------|-------------------|
| Length | 0.25 in [6.35 mm] |
| Width | 0.19 in [4.83 mm] |
| Height | 0.19 in [4.83 mm] |
| Weight | 0.00 lbs [0.18 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [VITA 67.3 Mini SMP \(SMPM\) Female to SMPS Female Adapter PE49821](#)



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| Description | Connector 1 | Connector 2 |
|---------------------|-----------------|-------------|
| Type | Mini SMP Female | SMPS Female |
| Polarity | Standard | Standard |
| Mating Cycles, Min* | | 100 |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|------------------|---------|------------------|---------|
| | Material | Plating | Material | Plating |
| Type | Mini SMP Female | | SMPS Female | |
| Contact | Beryllium Copper | Gold | Beryllium Copper | Gold |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | Beryllium Copper | Gold | Beryllium Copper | Gold |
| Body | Beryllium Copper | Gold | Beryllium Copper | Gold |

Environmental Specifications

Temperature

Operating Range -65 to +165 °C

Humidity

MIL-STD-202, Method 106, Less Step 7B

Shock

MIL-STD-202, Method 213, Condition I

Vibration

MIL-STD-202, Method 204, Condition D

Thermal Shock

MIL-STD-202, Method 107, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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VITA 67.3 Mini SMP (SMPM) Female to SMPS Female Adapter 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.

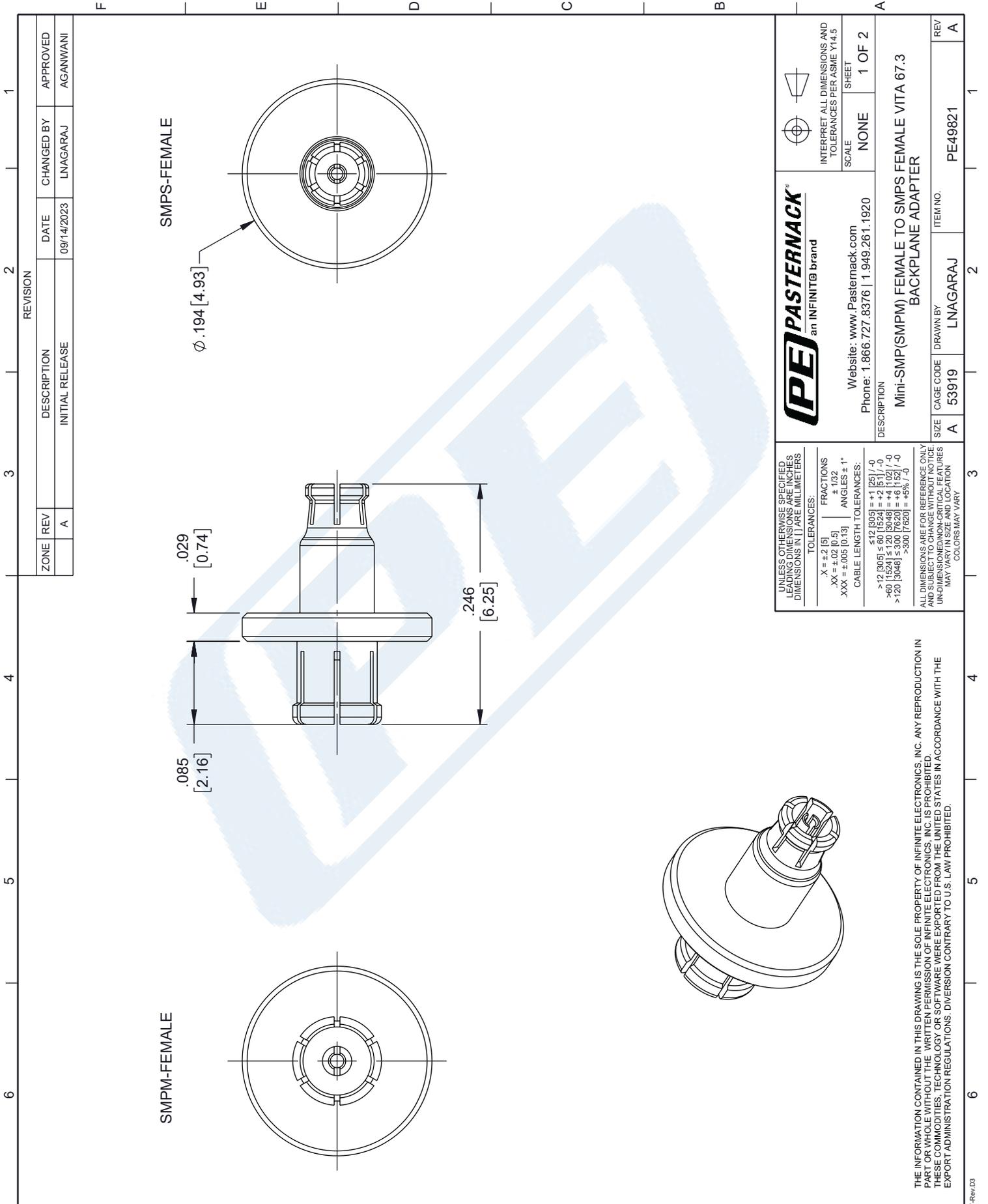
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [VITA 67.3 Mini SMP \(SMPM\) Female to SMPS Female Adapter PE49821](https://www.pasternack.com/vita-67.3-mini-smp-female-to-smps-female-adapter-pe49821-p.aspx)

URL: <https://www.pasternack.com/vita-67.3-mini-smp-female-to-smps-female-adapter-pe49821-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.

PE49821 CAD Drawing

VITA 67.3 Mini SMP (SMPM) Female to SMPS Female Adapter



| ZONE | | REVISION | | DATE | | APPROVED | | | |
|------|-----|-------------|------|------------|----------|-----------------|------------|----------|----------|
| A | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED | INITIAL RELEASE | 09/14/2023 | LNAGARAJ | AGANWANI |

| | | | | | |
|---|--|---|--|--|--|
| PASTERNAK an INFINITI® brand | | Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 2 | |
| DESCRIPTION: Mini-SMP(SMPM) FEMALE TO SMPS FEMALE VITA 67.3 BACKPLANE ADAPTER | | | | | |
| SIZE: A CAGE CODE: 53919 DRAWN BY: LNAGARAJ | | ITEM NO.: PE49821 | | REV: A | |

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | |
|---------------------|------------------|
| .X = ±.2 [5] | FRACTIONS ± 1/32 |
| .XX = ±.02 [0.5] | ANGLES ± 1° |
| .XXX = ±.005 [0.13] | |

CABLE LENGTH TOLERANCES:

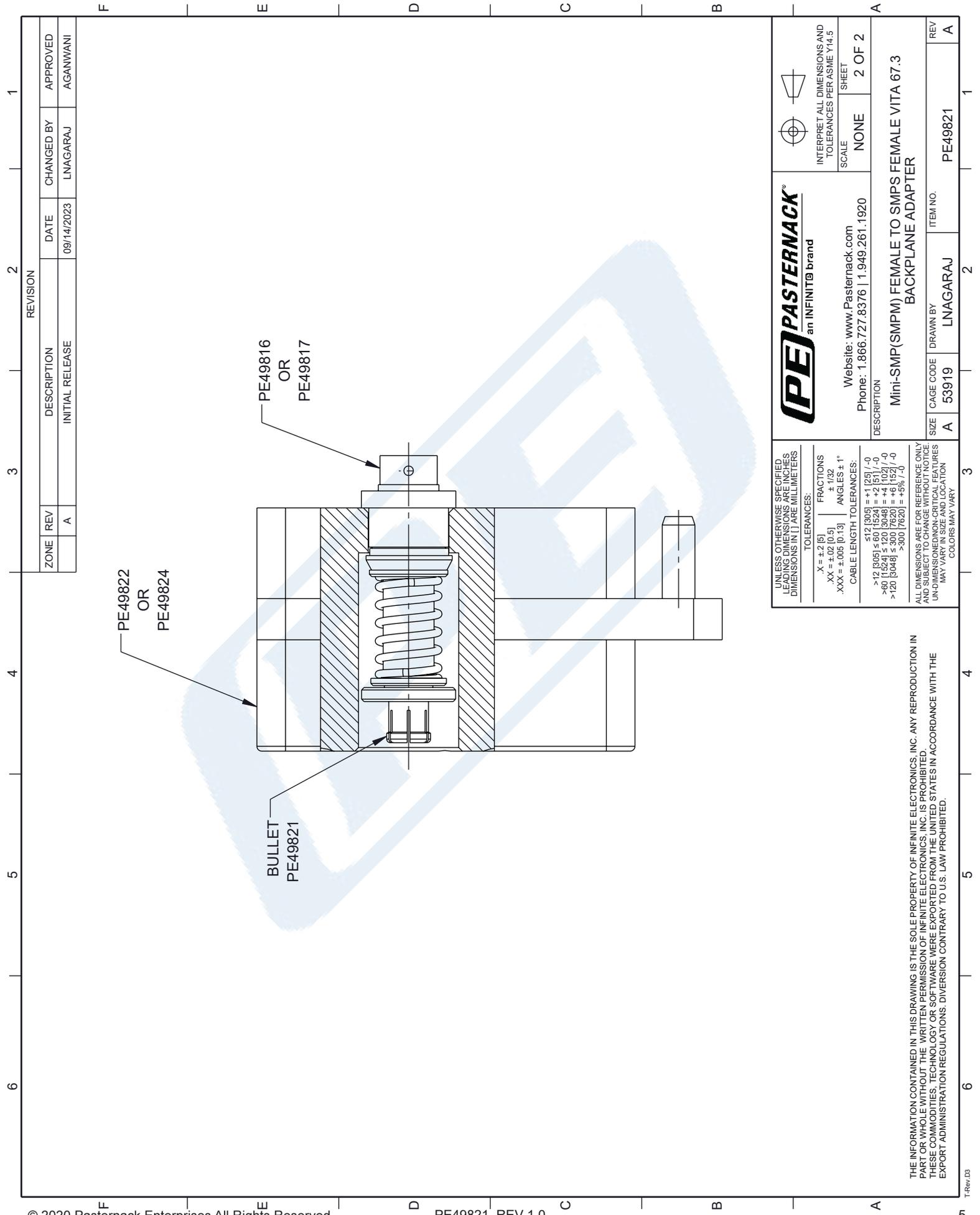
| | |
|---------------------------|-------------|
| ≤ 12 [305] | ± .125 / -0 |
| > 12 [305] ≤ 60 [1524] | ± .25 / -0 |
| > 60 [1524] ≤ 120 [3048] | ± .5 / -0 |
| > 120 [3048] ≤ 300 [7620] | ± 1.0 / -0 |
| > 300 [7620] | ± 2.0 / -0 |

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS INDICATED OTHERWISE. DIMENSIONS MAY VARY.

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| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 09/14/2023 | LNAGARAJ | AGANWANI |

REVISION

PE PASTERNAK
an INFINITIB brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
Mini-SMP (SMPM) FEMALE TO SMPS FEMALE VITA 67.3
BACKPLANE ADAPTER

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 2 OF 2

ITEM NO. PE49821

CAGE CODE LNAGARAJ

SIZE A

REV A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | |
|---------------------|--------------------------|
| .X = ±.2 [5] | FRACTIONS ± 1/32 |
| .XX = ±.02 [0.5] | ANGLES ± 1° |
| .XXX = ±.005 [0.13] | CABLE LENGTH TOLERANCES: |

| | | |
|-------------|--------------|-------------------|
| <12 [305] | ±.1 [25] | /-0 |
| >12 [305] | ±.60 [1524] | = +.2 [51] / -0 |
| >60 [1524] | ±.120 [3048] | = +.4 [1027] / -0 |
| >120 [3048] | ±.300 [7620] | = +.6 [1527] / -0 |
| >300 [7620] | ±.45% | /-0 |

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