



50 Ohm SMA Male to 75 Ohm F Male Matching
Pad Operating from DC to 3 GHz

Matching Pads Technical Data Sheet

PE70MP1107

Features

- DC to 3 GHz Frequency Range
- Low VSWR < 1.25:1
- 0.5 W Max Power (CW)

Applications

- CATV / Cable Networks
- Communication Systems
- Test and Measurement
- Wireless Systems

Description

Pasternack's PE70MP1107 is a 50 ohm SMA male to 75 ohm F male matching pad that operates from DC to 3 GHz. This SMA to F impedance matching pad offers a low VSWR of 1.25:1 max and attenuation of 7.5 dB max. PE70MP1107 50 ohm to 75 ohm minimum loss pad has a maximum CW power rating of 0.5 Watt. Matching pads are used to match the different impedance between two devices, maximizing power transfer between the two impedances. Pasternack's minimum loss impedance matching pads are available in various connector combinations to fit your needs, all of which ship the same day.

Configuration

Connector 1 50 Ohms SMA Male
Connector 2 75 Ohms F Male

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | 1.15:1 | 1.25:1 | |
| Attenuation | | 4 | 7.5 | dB |
| Input Power (CW) | | | 0.5 | Watts |

Electrical Specification Notes:

Impedance Matching Pads are resistive devices and are not designed as DC Pass or DC Block circuits

Mechanical Specifications

Size
Length 2.04 in [51.82 mm]
Width 0.5 in [12.7 mm]
Height 0.5 in [12.7 mm]
Weight 0.04 lbs [18.14 g]
Housing Material and Plating Brass, Tri-Metal

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm SMA Male to 75 Ohm F Male Matching Pad Operating from DC to 3 GHz PE70MP1107](#)



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Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------|-----------------------|
| Type | SMA Male | F Male |
| Impedance | 50 Ohms | 75 Ohms |
| Inner Conductor Material and Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

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

Plotted and Other Data

Notes:

50 Ohm SMA Male to 75 Ohm F Male Matching Pad Operating from DC to 3 GHz 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: [50 Ohm SMA Male to 75 Ohm F Male Matching Pad Operating from DC to 3 GHz PE70MP1107](#)

URL: <https://www.pasternack.com/sma-f-matching-pad-3-mhz-pe70mp1107-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.

PE70MP1107 CAD Drawing

50 Ohm SMA Male to 75 Ohm F Male Matching Pad Operating from DC to 3 GHz

F

E

D

C

B

A

F

E

D

C

B

A

1

2

3

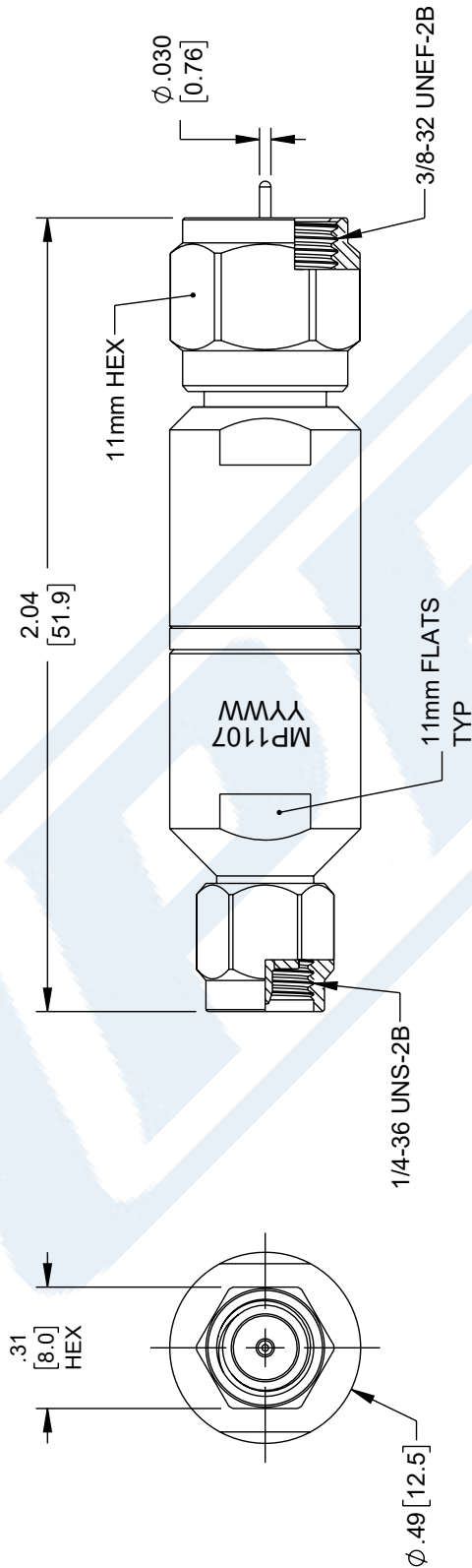
4

5

6

REVISION

| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|-----------|------------|----------|
| | A | INITIAL RELEASE | 3/31/2023 | KDANG | SPONG |



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

TOLERANCES:

X = ±.2 [5] FRACTIONS
.XX = ±.02 [.5] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305] = ±1 [25] / -0
> 12 [305] ≤ 60 [1524] = +2 [51] / -0
> 60 [1524] ≤ 120 [3048] = +4 [102] / -0
> 120 [3048] ≤ 300 [7620] = +6 [152] / -0
> 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE

PE PASTERNAK
an INFINIT® brand

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DESCRIPTION

50ohm SMA Male to 75ohm F Male matching pad 3Ghz VSWR1.25



INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE
SHEET 1 OF 1

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