

10 dB Fixed Attenuator 75 Ohm N-Type Male (Plug) to 75 Ohm N-Type Female (Jack) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.25:1 VSWR



## FMAT7752-10

### Features

- DC to 1 GHz Frequency Range
- F-Type Connectorized Design
- Attenuation 10 dB  $\pm$ 0.5 dB
- Max Power 1 Watts (CW)
- Max VSWR of 1.25:1

### Applications

- Instrumentation
- Cable TV and Video Distribution
- Prototyping and Characterization
- Production Systems

### Description

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The FMAT7752-10 is a 10 dB Fixed Attenuator that operates from DC to 1 GHz and is rated to 1 Watt. The versatile coaxial package uses type F male to type F female connectors and is also REACH compliant.

### Electrical Specifications

| Description          | Minimum | Typical   | Maximum | Units |
|----------------------|---------|-----------|---------|-------|
| Frequency Range      | DC      |           | 1,000   | MHz   |
| Impedance            |         | 75        |         | Ohms  |
| Nominal Attenuation  |         | 10        |         | dB    |
| Attenuation Accuracy |         | $\pm$ 0.5 |         | dB    |
| VSWR                 |         |           | 1.25:1  |       |
| Input Power, CW      |         |           | 1       | Watt  |

### Mechanical Specifications

#### Size

|                           |                    |
|---------------------------|--------------------|
| Length                    | 2.03 in [51.56 mm] |
| Width/Diameter            | 0.43 in [10.92 mm] |
| Height                    | 0.43 in [10.92 mm] |
| Weight                    | 0.04 lbs [18.14 g] |
| Body Material and Plating | Brass, Tri-Metal   |

#### Configuration

|               |                      |
|---------------|----------------------|
| Design        | Fixed, Bidirectional |
| Design Type   | Standard             |
| Package Style | Connectorized        |

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**FMAT7752-10**

**Connectors**

| Description                  | Connector 1      | Connector 2            |
|------------------------------|------------------|------------------------|
| Type                         | F Male           | F Female               |
| Contact Material and Plating | Brass, Gold      | Beryllium Copper, Gold |
| Dielectric Type              | PTFE             | PE                     |
| Body Material and Plating    | Brass, Tri-Metal | Brass, Tri-Metal       |

**Environmental Specifications**

**Temperature**

Operating Range -50 to +80 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**

10 dB Fixed Attenuator 75 Ohm N-Type Male (Plug) to 75 Ohm N-Type Female (Jack) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.25:1 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

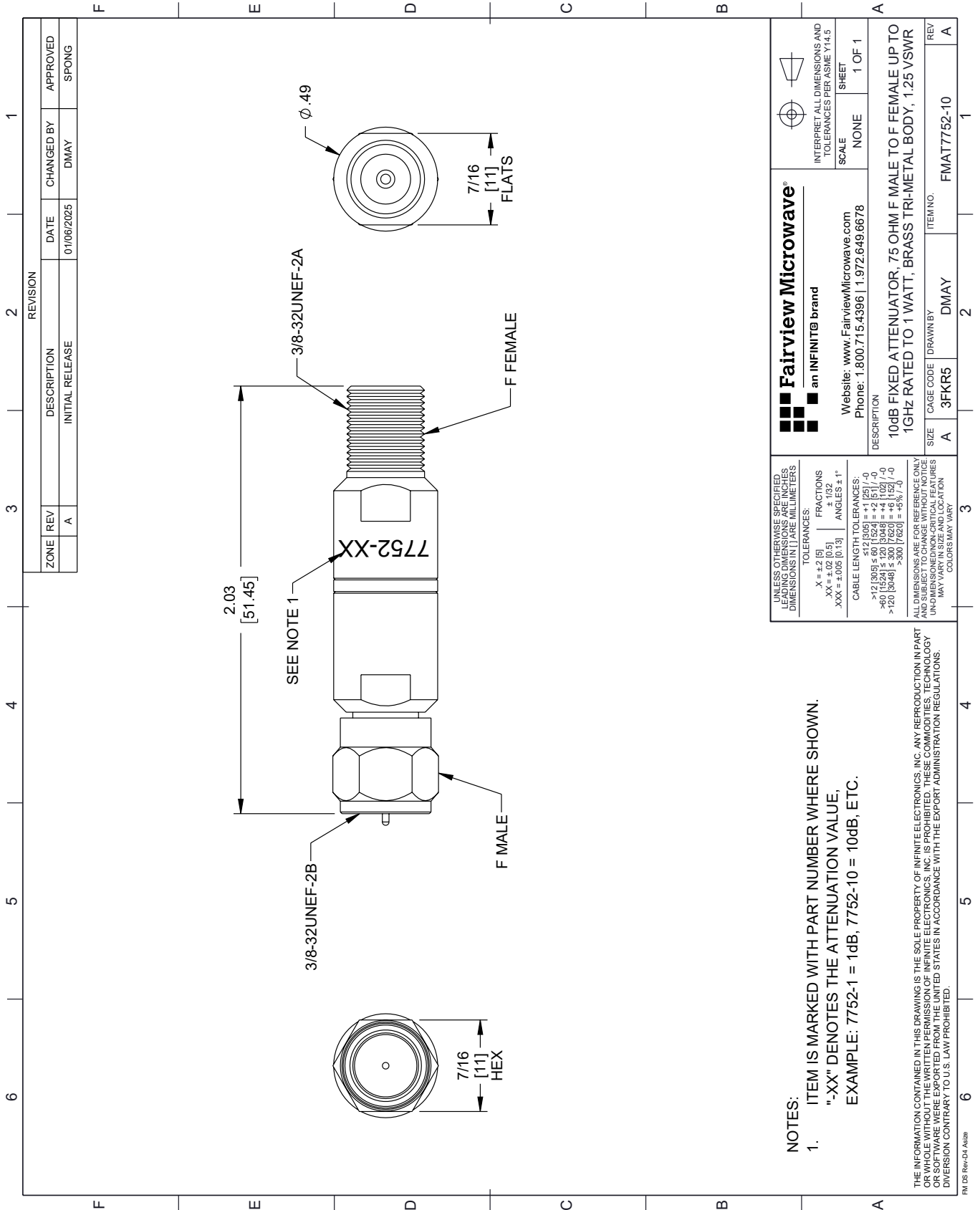
For additional information on this product, please click the following link: [10 dB Fixed Attenuator 75 Ohm N-Type Male \(Plug\) to 75 Ohm N-Type Female \(Jack\) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.25:1 VSWR FMAT7752-10](#)

URL: <https://www.fairviewmicrowave.com/10db-fixed-attenuator-f-male-f-female-1-watt-fmat7752-10-p.aspx>

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# FMAT7752-10 CAD Drawing

10 dB Fixed Attenuator 75 Ohm N-Type Male (Plug) to 75 Ohm N-Type Female (Jack) DC to 1 GHz rated to 1 Watt Brass Tri-Metal Body 1.25:1 VSWR



|                                                                                                                                                                                |                       |                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|
| <b>Fairview Microwave®</b><br>an INFINIT® brand<br>Website: <a href="http://www.FairviewMicrowave.com">www.FairviewMicrowave.com</a><br>Phone: 1.800.715.4396   1.972.649.6678 |                       | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5<br>SCALE: NONE<br>SHEET: 1 OF 1 |
| DESCRIPTION<br>10dB FIXED ATTENUATOR, 75 OHM F MALE TO F FEMALE UP TO 1GHz RATED TO 1 WATT, BRASS TRI-METAL BODY, 1.25 VSWR                                                    |                       |                                                                                        |
| SIZE: A<br>CAGE CODE: 3FKR5<br>DRAWN BY: DMAY                                                                                                                                  | ITEM NO.: FMAT7752-10 | REV: A                                                                                 |

**NOTES:**

- ITEM IS MARKED WITH PART NUMBER WHERE SHOWN.  
 "-XX" DENOTES THE ATTENUATION VALUE,  
 EXAMPLE: 7752-1 = 1dB, 7752-10 = 10dB, ETC.

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

TOLERANCES:  
 .X = ±.2 (5) FRACTIONS ±.132  
 .XX = ±.02 (0.5) ±.132  
 .XXX = ±.005 (0.13) ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 <12 (305) ≤ 60 (1524) = ±.125 (3.175) / -0  
 >60 (1524) ≤ 120 (3048) = ±.102 (2.591) / -0  
 >120 (3048) ≤ 300 (7620) = ±.08 (2.032) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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