

RF Load 20 Watts Medium Power To 2.7 GHz
Low PIM Black Anodized Aluminum 4.1/9.5 Mini DIN
Male

Fairview Microwave's FMTR1022 is an RF cable termination (also called RF load or dummy load) that operates from 698 to 2,700 MHz and handles up to 20 Watts CW. Our 4.1/9.5 Mini DIN termination / load is a 50 Ohm impedance and has a male gender. FMTR1022 load termination offers 1.15:1 Typical VSWR and low PIM (passive intermodulation) of 160 dBc. This Fairview Microwave 20 Watts terminator has a heatsink body which is designed to provide adequate heat dissipation within its full frequency of operation.

RF load / terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can potentially damage the device or reduce the signal integrity. By terminating an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, hybrids, and combiners. They are also widely used in measurement systems to ensure accurate results. Fairview Microwave offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watts CW.



Features:

- RF 50 Ohm Impedance
- 698 to 2,700 MHz Frequency Range
- Typical VSWR 1.15:1
- Max Power 20 Watts CW
- Low PIM
- 4.1/9.5 Mini DIN Male Coaxial Interface
- DC Open

Applications:

- Wireless
- SatCom
- Test and Measurement
- Commercial and Military Communication
- Base Station
- 4G/AWS/PCS

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------------|-------|--------|--------|-------|
| Frequency Range | 0.698 | | 2.7 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | 1.15:1 | 1.33:1 | |
| Return Loss | | 23 | 17 | dB |
| Passive Intermodulation | -160 | | | dBc |
| Input Power (CW) | | | 20 | Watts |

Mechanical Specifications

| | |
|-------------|----------------------|
| Size | |
| Length | 5.11 in [129.79 mm] |
| Width | 1.5 in [38.1 mm] |
| Height | 1.5 in [38.1 mm] |
| Weight | 1.289 lbs [584.68 g] |

Configuration

Connector 4.1/9.5 Mini DIN Male

Material Specifications

| Description | Material | Plating |
|-------------|-------------------------|---------|
| Housing | Black Anodized Aluminum | |

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

| | |
|-----------------|------------|
| RoHS Compliant | Yes |
| REACH Compliant | 12/17/2015 |

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Plotted and Other Data

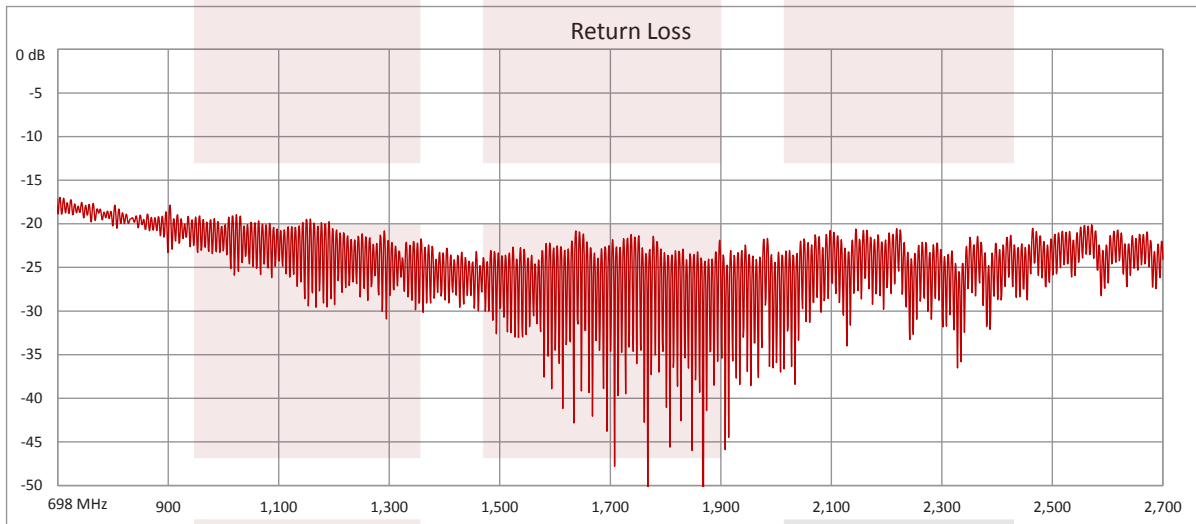
Notes:

Typical Performance Data

Passive Intermodulation Test Data

| Tone 1 Frequency (MHz) | Tone 2 Frequency (MHz) | IM3 Frequency (MHz) | PIM Minimum (dBc) |
|---------------------------|---------------------------|------------------------|----------------------|
| 1945.0 | 1990.0 | 1900.0 | -160.0 |

| P1 | P2 | PIM | Result |
|----------|----------|------------|--------|
| 43.0 dBm | 43.0 dBm | -172.5 dBc | Pass |

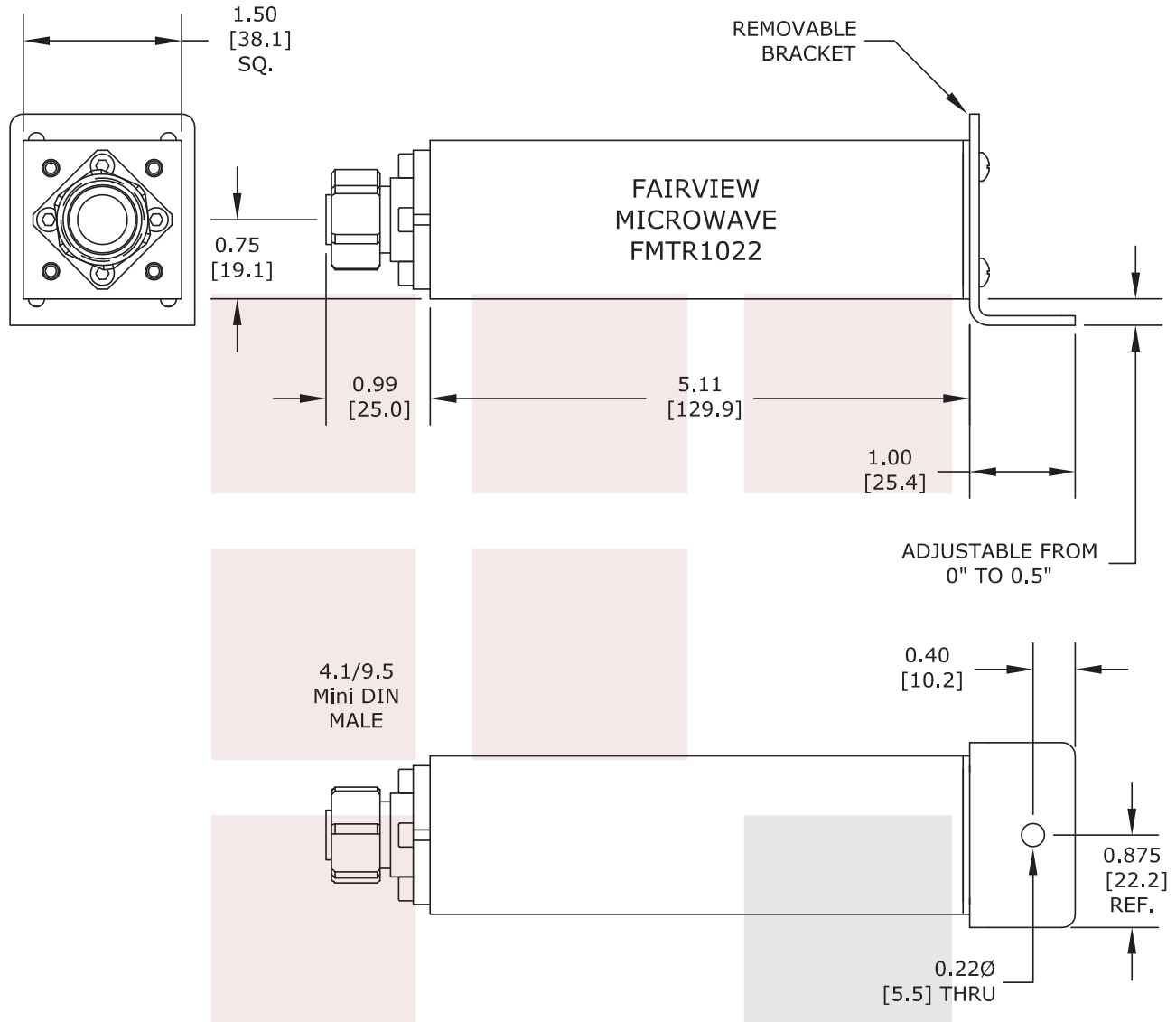


RF Load 20 Watts Medium Power To 2.7 GHz Low PIM Black Anodized Aluminum 4.1/9.5 Mini DIN Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 20 Watts Medium Power To 2.7 GHz Low PIM Black Anodized Aluminum 4.1/9.5 Mini DIN Male FMTR1022](https://www.fairviewmicrowave.com/rf-load-20-watts-2.7-ghz-low-pim-4.1-9.5-mini-din-male-fmtr1022-p.aspx)

URL: <https://www.fairviewmicrowave.com/rf-load-20-watts-2.7-ghz-low-pim-4.1-9.5-mini-din-male-fmtr1022-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN: inches
 TOLERANCES ARE: [mm]
 HOLE TOLERANCE: X.XXX ± .003 [±.076]
 LENGTH TOLERANCE: X.XXX ± .010 [±.254]
 LENGTH TOLERANCE: X.XX ± .030 [±.762]

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

| | | | | | |
|---|----------|---|-------|-----|-------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. | | | |
| TITLE | DWG NO | CAGE CODE | | | |
| RF Load 20 Watts Medium Power To 2.7 GHz Low PIM Black Anodized Aluminum 4.1/9.5 Mini DIN Male | FMTR1022 | 3FKR5 | | | |
| CAD FILE | 062316 | SHEET | SCALE | N/A | SIZE A 2233 |