

## 3.5mm Female Load Calibration Kit Component for Precision Up to 26.5 GHz

3.5mm female load calibration kit component, part number FMTR1059, from Fairview Microwave is in-stock and ships same day. This 3.5mm precision load circuit can be used for calibration of most vector network analyzers (VNA), cable analyzers or site analyzers. Impedance and VSWR specifications for this 3.5mm load calibrating component are provided in the datasheet. Precision control of the impedance and electrical length allow for OSLT analyzer calibrations over the complete frequency range of the connector interface provided.

Fairview's 3.5mm load circuit calibration component FMTR1059 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering for RF, microwave and millimeter wave components allows designers to configure and customize their test solutions however they like. From calibration kit replacement to SOLT / OSLT VNA calibration, Fairview Microwave has the right calibration kit components to meet your needs and ship them same-day.

### Electrical Specifications

| Description       | Min | Typ | Max  | Units |
|-------------------|-----|-----|------|-------|
| Frequency Range   | DC  |     | 26.5 | GHz   |
| Impedance         |     | 50  |      | Ohms  |
| Input Power, CW   |     |     | 0.5  | Watts |
| Input Power, Peak |     |     | 250  | Watts |

### Performance by Frequency

| Description     | F1     | F2     | F3     | F4      | F5 | Units |
|-----------------|--------|--------|--------|---------|----|-------|
| Frequency Range | DC-3   | 3-6    | 6-20   | 20-26.5 |    | GHz   |
| VSWR, Max       | 1.02:1 | 1.04:1 | 1.06:1 | 1.09:1  |    |       |

### Mechanical Specifications

#### Size

|                |                    |
|----------------|--------------------|
| Length         | 1.46 in [37.08 mm] |
| Width/Diameter | 0.36 in [9.14 mm]  |
| Pin Depth      | 0 to 0.003 in      |

#### Connector 1

|                           |                        |
|---------------------------|------------------------|
| Connector Type            | 3.5mm Female           |
| Body Material and Plating | Beryllium Copper, Gold |

#### Connector 2

### Environmental Specifications



### Features:

- Controlled Impedance
- Replaces Damaged Calibrating Kit Components
- Precision Interfaces
- In Stock and Ready to Ship

### Applications:

- SOLT or OSLT Calibration
- VNA Calibration
- Device Characterization
- De-embedding
- Replacement Calibration Kits

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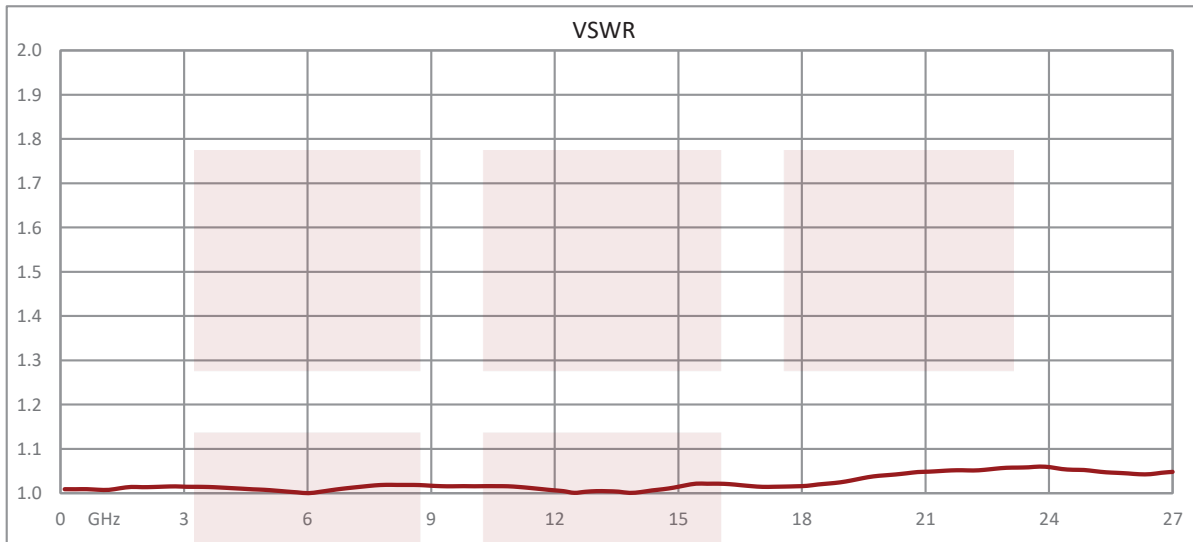
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

**Typical Performance Data**

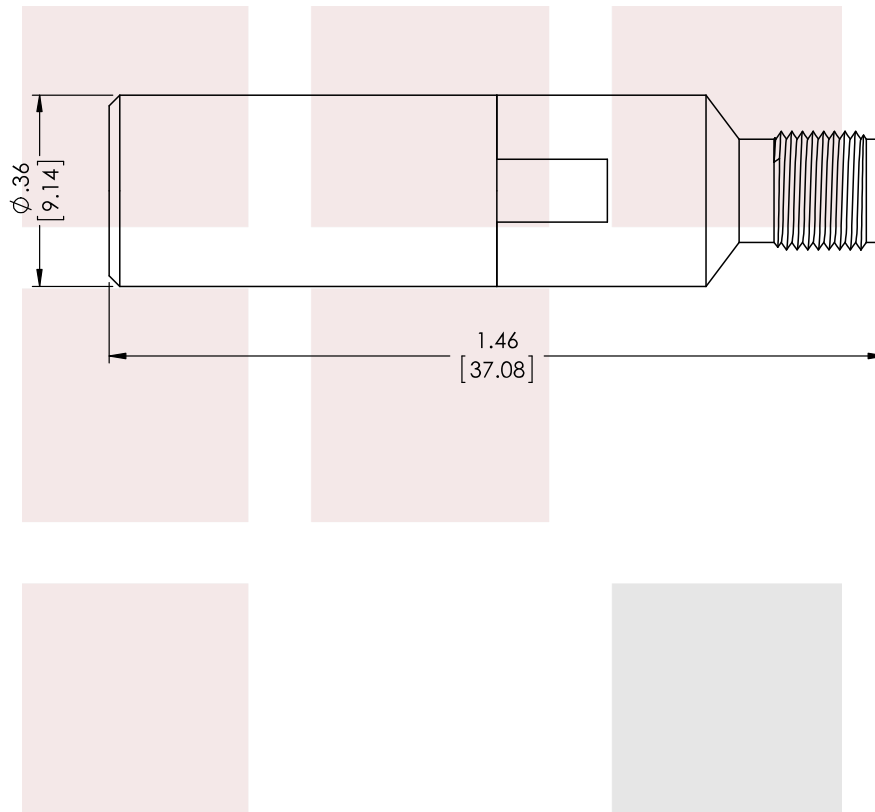


3.5mm Female Load Calibration Kit Component for Precision Up to 26.5 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5mm Female Load Calibration Kit Component for Precision Up to 26.5 GHz FMTR1059](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-female-calibration-kit-component-load-26.5-ghz-fmtr1059-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.



**STANDARD TOLERANCES**

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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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<br>3.5mm Female Load Calibration Kit Component for Precision Up to 26.5 GHz | DWG NO<br>FMTR1059   |        | CAGE CODE<br>3FKR5 |           |
|   | CAD FILE<br>01/29/18 | SHEET  | SCALE<br>N/A       | SIZE<br>A |
|   |                      | CN2245 |                    |           |