

**Instrumentation Grade WR-42 Waveguide  
 Termination 6 Watts With a 18 GHz to 26.5 GHz  
 Frequency Range in Brass**

The SMW42TR1001 is a waveguide termination (load) that is part of a family of high performance loads with square cover per MIL-DTL-85. They are designed so that virtually all the applied power is absorbed, thus assuring a low VSWR. These standard terminations, offered in the Ka through W waveguide bands can dissipate 0.4 to 6 Watts of power depending on the specific band.

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.08:1	
Input Power (CW)			6	Watts

**Mechanical Specifications**

Size	
Length	2.5 in [63.5 mm]
Weight	0.093 lbs [42.18 g]

Description	Flange	Waveguide
Designation	UG-595/U	WR-42
Type	Square Cover	
Material	Brass	Brass
Plating	Gold	Gold
Plating Spec.	ASTMB488	ASTMB488

Mechanical Specification Notes:  
 ASTMB488

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

**Plotted and Other Data**

Notes:



**Features:**

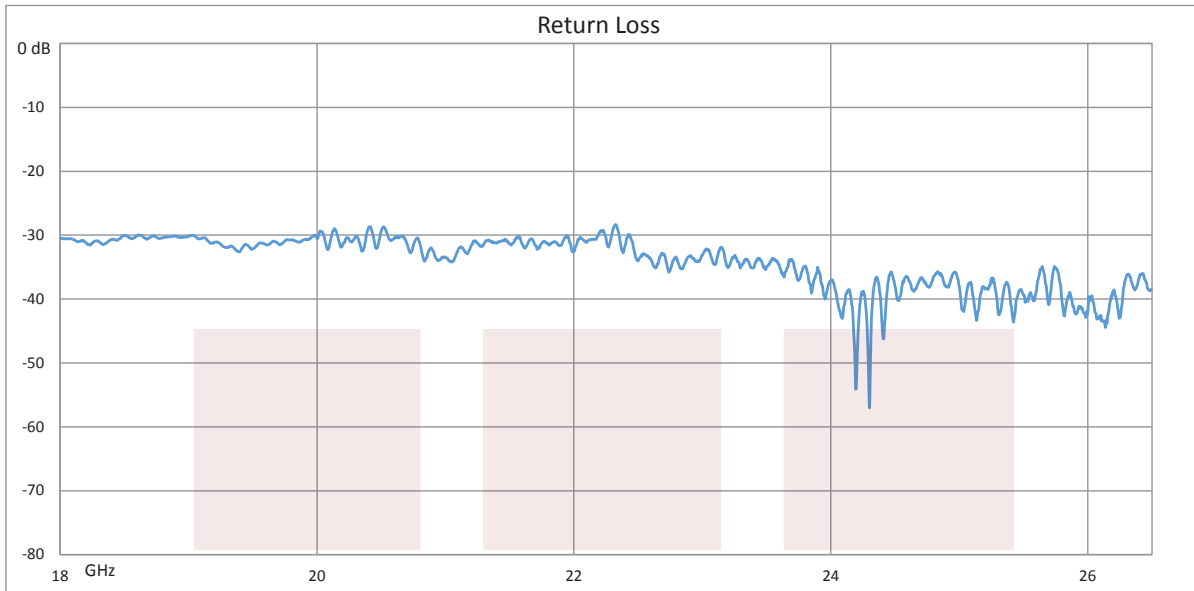
- WR-42
- 18 to 26.5 GHz
- UG-595/U Flange
- 1.08:1 Maximum VSWR
- 6 Watts Average Power Handling

**Applications:**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production Systems

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**Typical Performance Data**

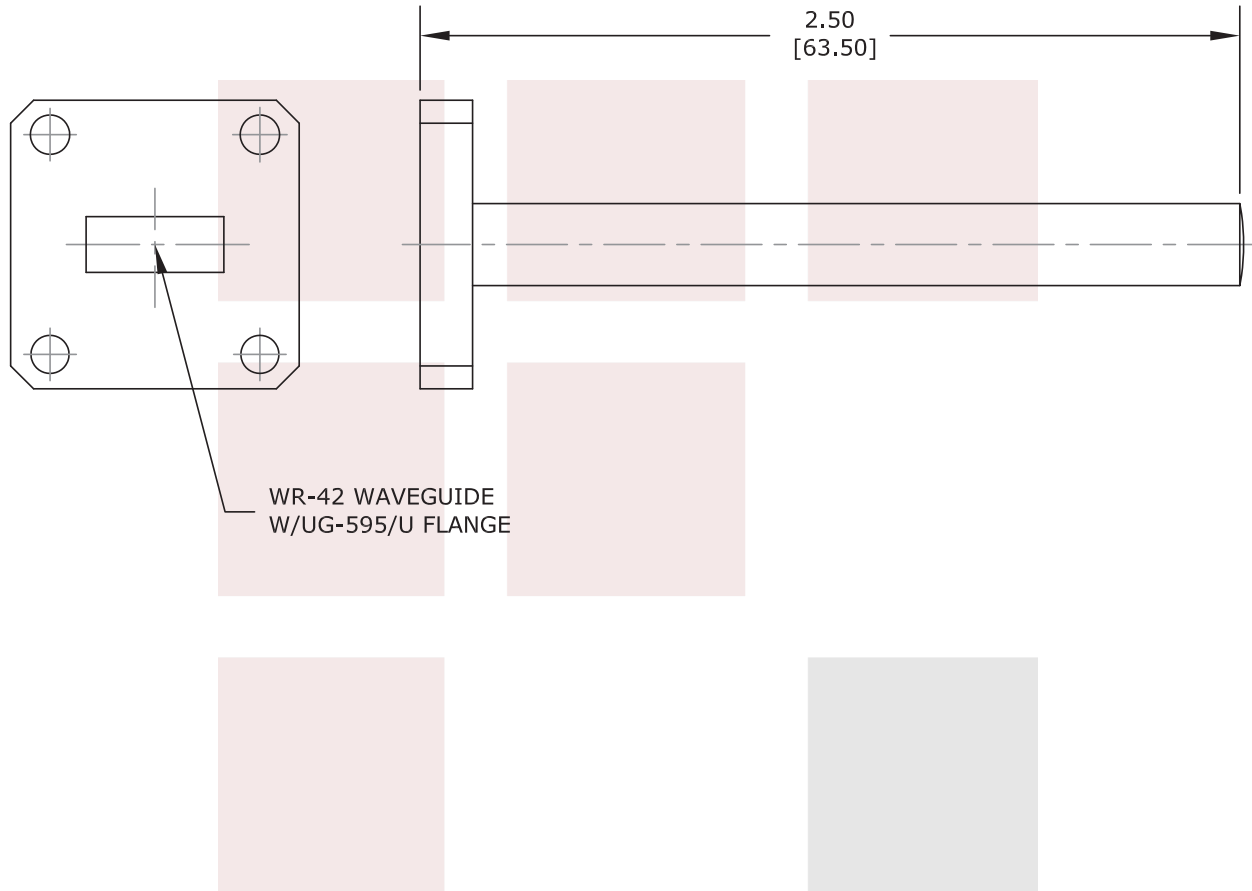


Instrumentation Grade WR-42 Waveguide Termination 6 Watts With a 18 GHz to 26.5 GHz Frequency Range in Brass from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Instrumentation Grade WR-42 Waveguide Termination 6 Watts With a 18 GHz to 26.5 GHz Frequency Range in Brass SMW42TR1001](#)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-termination-6-watts-18-26.5-ghz-smw42tr1001-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]  
 .XX ± .10 [± 2.54]  
 .XXX ± .005 [± .127]

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

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TITLE Instrumentation Grade WR-42 Waveguide Termination 6 Watts With a 18 GHz to 26.5 GHz Frequency Range in Brass	DWG NO SMW42TR1001		CAGE CODE 3FKR5		
	CAD FILE 121515	SHEET	SCALE N/A	SIZE A	2233