

Aluminum WR-187 Waveguide Pressure Window with CPR187F and CPR187G Flanges

Waveguide pressure windows are used to isolate pressurized components from non-pressurized components within a waveguide system. They can also provide protection against contaminants (debris, moisture and dust) from entering the waveguide system and degrading its RF performance. The FMWGP1003 is a WR-187 waveguide pressure windows that operates in the frequency range of 3.94 GHz to 5.99 GHz. This WR-187 waveguide termination has a Max VSWR of 1.25:1. This waveguide pressure window is made of painted aluminum and incorporates CPR187F and CPR187G flange interface. In addition to waveguide pressure window product line, Fairview Microwave also offers a wide range of waveguide products which are available in stock and ready for same-day shipment.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	3.94		5.99	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power			2	kWatts

Mechanical Specifications

Body Material	Aluminum
Body Finish	Chromate
Length	3.5 in [88.9 mm]
Width	2.5 in [63.5 mm]
Height	0.787 in [19.99 mm]
Weight	1.1 lbs [498.95 g]

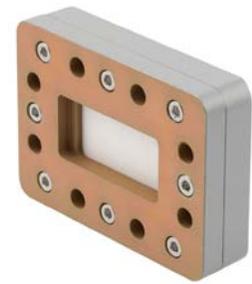
Compliance Certifications (see [product page](#) for current document)

Aluminum WR-187 Waveguide Pressure Window with CPR187F and CPR187G Flanges 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: [Aluminum WR-187 Waveguide Pressure Window with CPR187F and CPR187G Flanges FMWGP1003](#)

URL: <https://www.fairviewmicrowave.com/fmwgp1003-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.



Features:

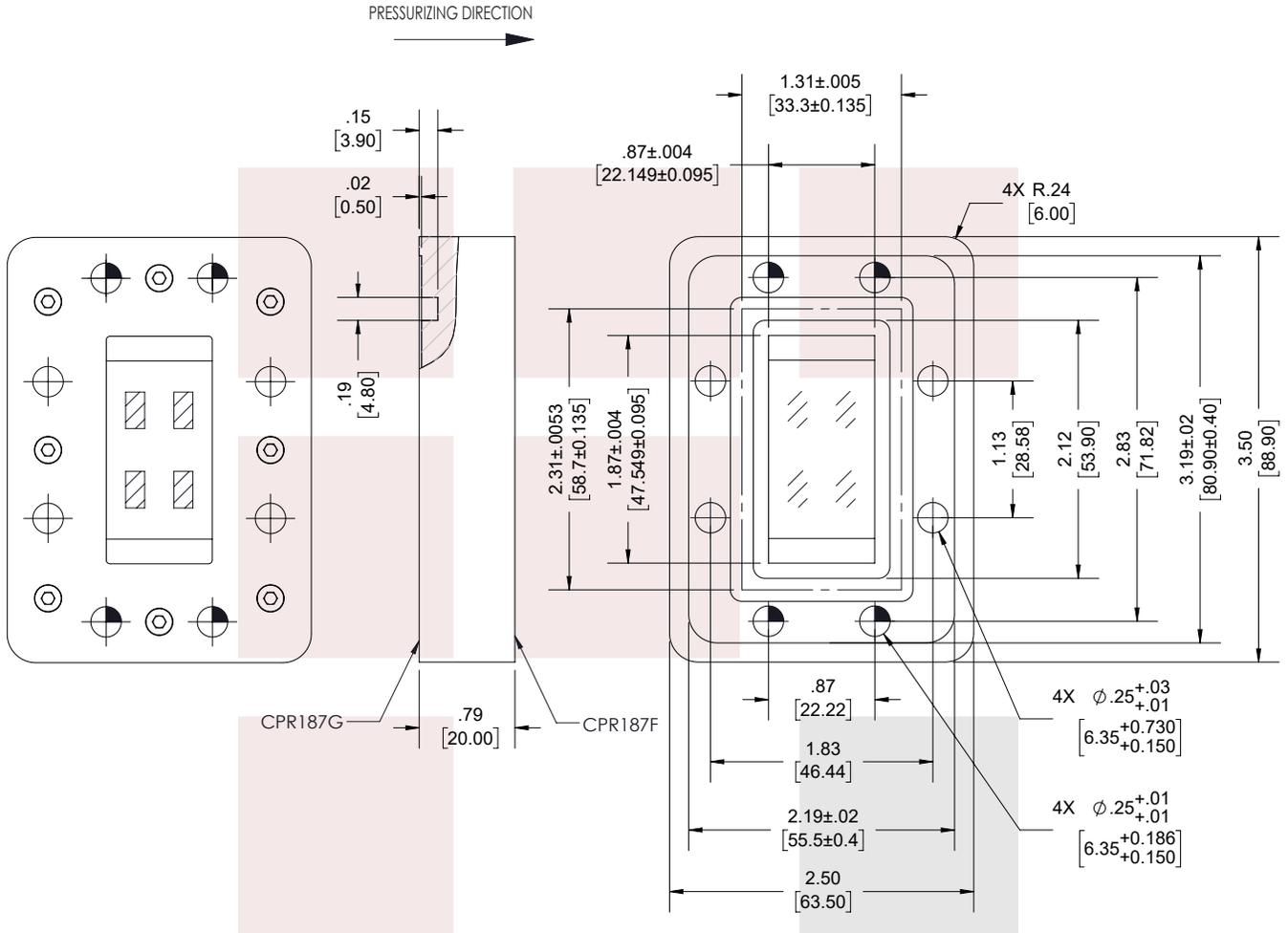
- WR-187 Waveguide
- Operating Frequency Range from 3.94 GHz to 5.99 GHz
- CPR187F and CPR187G Flanges
- 1.25:1 Max VSWR
- 2000 Watts (CW) Max Power Handling
- Insertion loss: 0.2 dB Max
- Thickness: 0.79 inches
- PTFE window material
- Pressure Handling Capability: 29 PSI Max

Applications:

- Radar Systems
- Military and Space
- Wireless Radio Systems
- Communication Systems
- R&D Labs
- Microwave Radio Systems

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	15-04-2021	SPONG



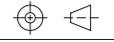
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TITLE
Aluminum WR-187 Waveguide Pressure Window with CPR187F and CPR187G Flanges

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

TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	
.XX = ±.02 [.51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
.XXX = ±.005 [.13]		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
		300 [7620] < L = +5%L / -0	

THIRD-ANGLE PROJECTION



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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE
N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY MVEERAPPAN	ITEM NO. FMWGP1003	REV A
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T-Rev.D