

WR-42 Waveguide Section 6 Inch Length Straight Using UG-595/U Flange With a 18 GHz to 26.5 GHz Frequency Range in Instrumentation Grade

Fairview Microwave carries a wide variety of waveguide sections ranging from WR-12 to WR-137. These waveguide sections include grooved and non-grooved designs. Standard lengths of our waveguide sections include 3", 6", 9", and 12" (custom lengths available upon request). For ease of identification, our commercial grade waveguide sections are painted grey while our instrumentation grade waveguide sections are gold plated. Our instrumentation grade waveguide sections were designed with precision tolerances as tight as $\pm 0.001"$ and were constructed of a high grade oxygen free copper to ensure repeatable RF performance.



Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.06:1	
Insertion Loss			0.12 [0.39]	dB/ft [dB/m]

* Values at 25°C, sea level

Mechanical Specifications

Waveguide Size	WR-42
Waveguide Design	Instrumentation Grade
Section Length	6 in [152.4 mm]
Flange 1	
Flange Type	Square Cover
Flange Designation	UG-595/U
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash
Waveguide	
Interface	WR-42
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash
Flange 2	
Flange Type	Square Cover
Flange Designation	UG-595/U
Material	Oxygen Free Hard Copper
Plating	Hard Gold over Copper Flash
Size	
Weight	0.172 lbs [78.02 g]

Features:

- Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- Wide variety of flange types, including grooved and non-grooved designs
- Custom lengths available upon request
- Precision waveguide mechanical tolerances as tight as $\pm 0.001"$
- Comprehensive waveguide offering also includes Bends, Filters, Terminations, and Waveguide to Coaxial Adapters

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

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

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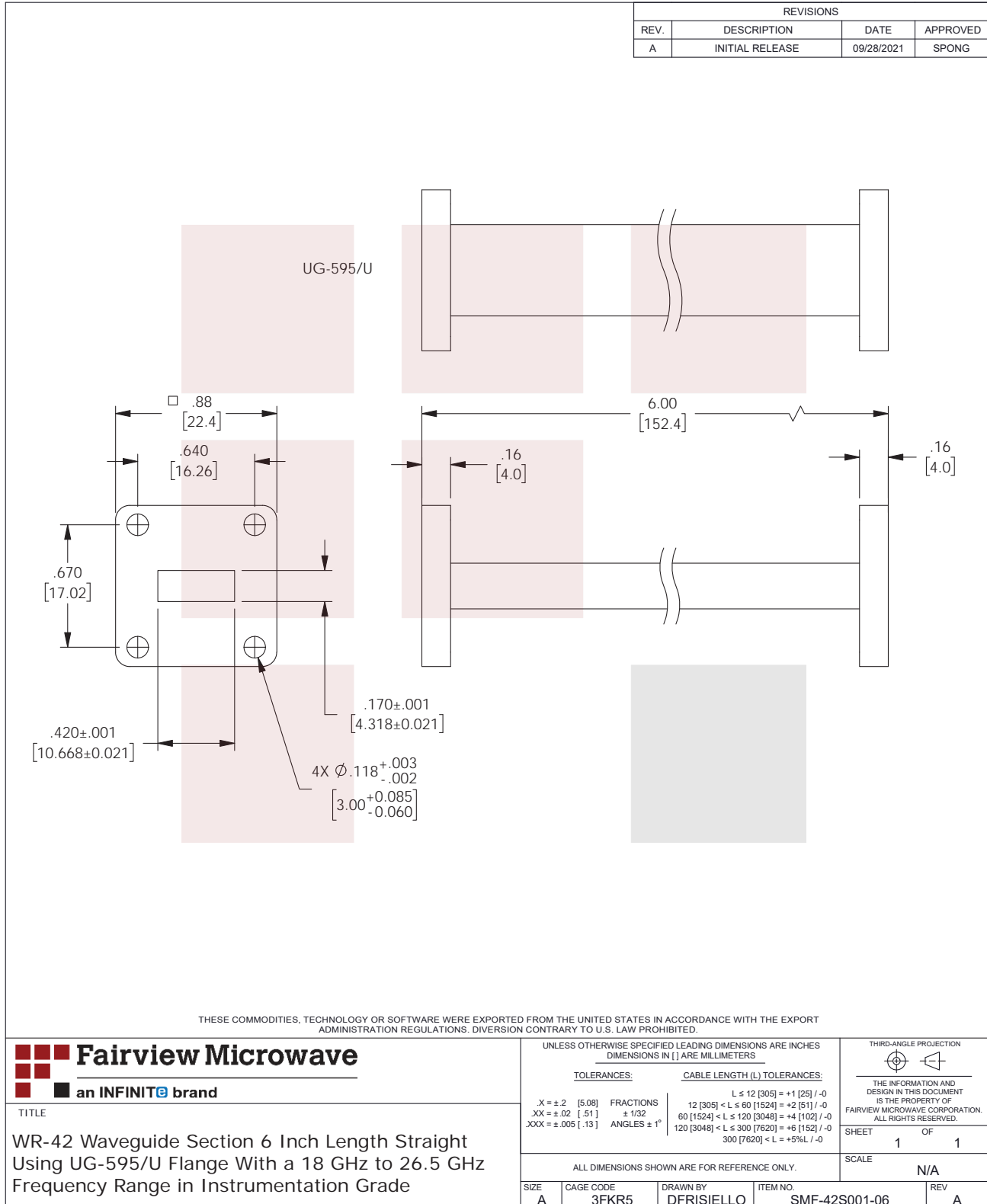
WR-42 Waveguide Section 6 Inch Length Straight Using UG-595/U Flange With a 18 GHz to 26.5 GHz Frequency Range in Instrumentation Grade from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 Waveguide Section 6 Inch Length Straight Using UG-595/U Flange With a 18 GHz to 26.5 GHz Frequency Range in Instrumentation Grade SMF-42S001-06](#)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-section-ug595-flange-18-26.5-ghz-smf-42s001-06-p.aspx>

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