

WR-42 Waveguide Continuously Variable Attenuator with Dial 0 to 30 dB, Operating from 18 GHz to 26.5 GHz, UG-595/U Square Cover Flange

Fairview Microwave's Continuously Variable Waveguide Attenuators are offered for the frequency range of 18 to 110 GHz in different waveguide bands. The attenuation value of the Continuously Variable attenuators are from 0 to 30 dB with full waveguide operational bandwidth. The Continuously Variable attenuators are equipped with a micrometer, which enables rapid re-setting. With calibrated charts, attenuators can be used as direct reading attenuator for bench top test set use. The level setting attenuators are typically used in the test setups and prototype assemblies where certain attenuation is required.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
Typical Attenuation Value	0		30	dB
Insertion Loss		0.3		dB
Input Power (CW)			0.3	Watts
VSWR		1.15:1		

Values at 25°C, sea level

Mechanical Specifications

Flange 1

Interface UG-595/U
 Material Brass
 Plating Gold

Waveguide

Interface WR-42
 Material Copper
 Plating Gold

Flange 2

Interface UG-595/U
 Material Brass
 Plating Gold

Size

Length 3 in [76.2 mm]
 Width 1.375 in [34.93 mm]
 Height 2.197 in [55.8 mm]
 Weight 0.22 lbs [99.79 g]

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

Plotted and Other Data

Notes:
 • Values at 25 °C, sea level



Features:

- 30 dB Attenuation Level
- Rotary Dial for Continuous Adjustments
- Frequency Range: 18 GHz to 26.5 GHz
- Typical VSWR 1.15:1
- Max Power Rating: 0.3 Watts (CW)

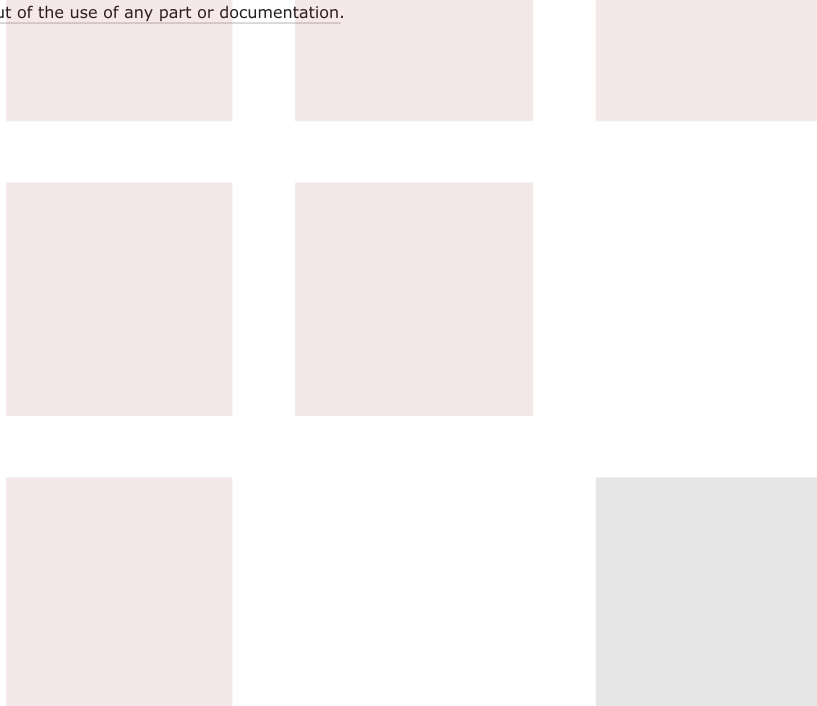
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WR-42 Waveguide Continuously Variable Attenuator with Dial 0 to 30 dB, Operating from 18 GHz to 26.5 GHz, UG-595/U Square Cover Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

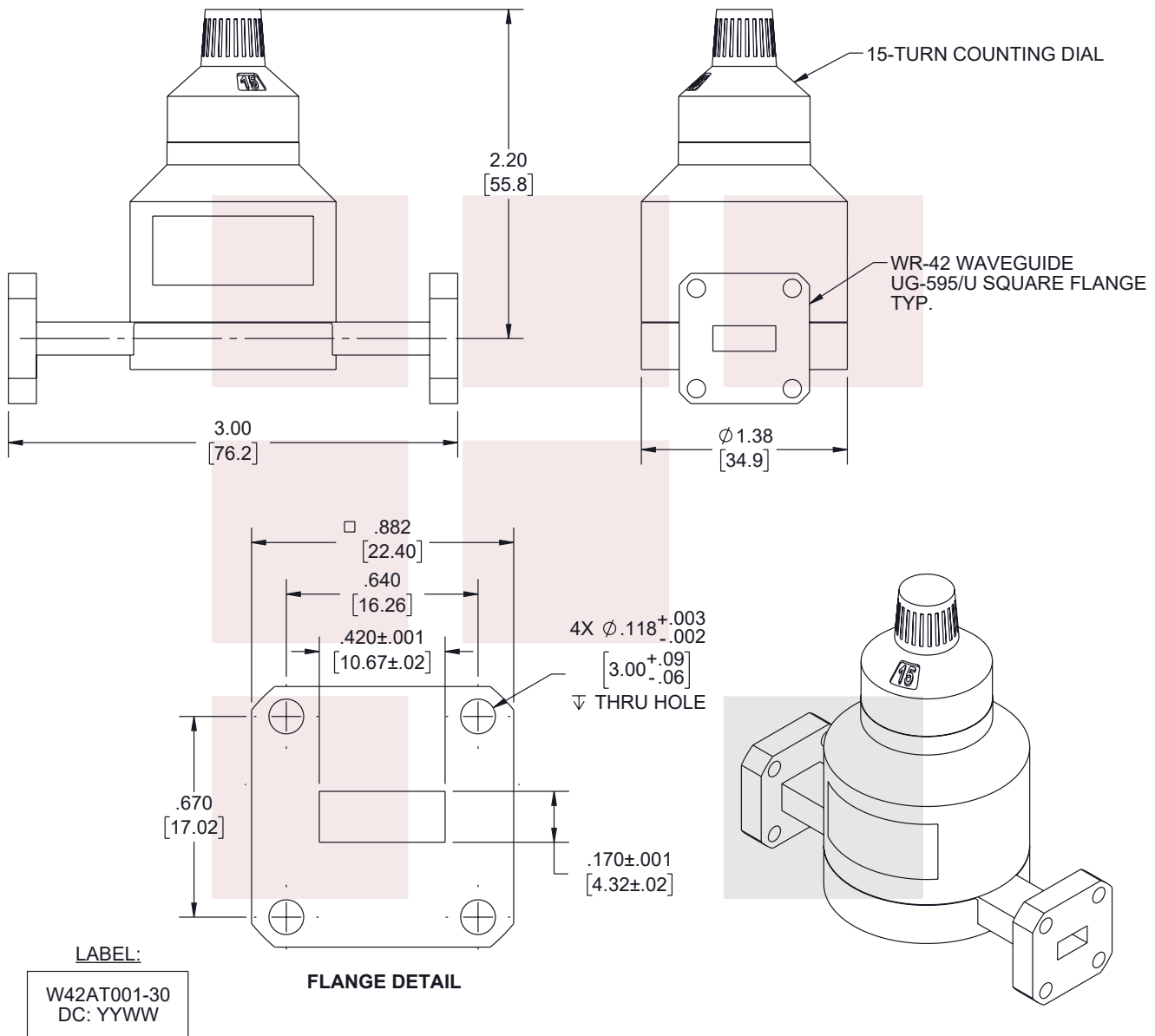
For additional information on this product, please click the following link: [WR-42 Waveguide Continuously Variable Attenuator with Dial 0 to 30 dB, Operating from 18 GHz to 26.5 GHz, UG-595/U Square Cover Flange FMW42AT001-30](#)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-continuously-variable-attenuator-30-db-ug595-square-fm-w42at001-30-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/19/22	SPONG



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TITLE

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	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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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY HBAKKE	ITEM NO. FMW42AT001-30	REV A
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