

20 dBi WR-112 Standard Gain Horn Radome Cover

FMWGCOV112-20 is a radome cover for 20 dBi WR-112 Standard Gain Horn antenna. This waveguide antenna radome cover is made from high strength, thermally stable Polymethacrylimide (PMI). PMI offers a low Relative Permittivity (Dielectric Constant) at the high frequency ranges seen with microwave and millimeter wave components. This allows for minimal signal loss or attenuation over other materials.

Increase your system capabilities with our PMI radome covers, designed to enhance the durability and longevity of standard gain horn antennas. Shielding against environmental elements, our radome covers ensure consistent signal integrity in any conditions. FMWGCOV112-20 has internal dimensions of 5.65 in by 4.2 in and will fit 20 dBi WR-112 standard gain horns. Fairview Microwave offers a wide selection of high performance waveguide components available in stock and same-day shipping to customers worldwide.

Mechanical Specifications

Body Material	Polymethacrylimide (PMI)
Length	5.854 in [148.69 mm]
Width	4.443 in [112.85 mm]
Height	0.276 in [7.01 mm]
Weight	0.215 lbs [97.52 g]

Mechanical Performance								
Typical Density (kg/m ³)	Compressive Strength (MPa)	Compression Modulus (MPa)	Tensile Strength (MPa)	Tensile Modulus (MPa)	Fracture Growth Rate(%)	Bending Strength (MPa)	Bending Modulus (MPa)	Deflection (MPa)
200	8.5	317	7.5	410	2.4	13	449	22
Standard Test	GB/T 8813-2008		GB/T9641-1988			GB/T 8812.2-2007		

Electrical Performance									
Antenna Radome Material	Frequency								Tolerance
	2	2.5	2.8	5	10	26	26.5		
ϵ_r (Relative Permittivity)	1.08	1.09	/	1.14	1.14	1.14	1.12	± 0.01	

Remarks:

1. Test method: GB/T - 5597 - 1999 "Test Method for Microwave Complex Permittivity of Solid Dielectric".
2. Sample size: diameter 51mm, thickness 5mm.
3. Sampling rate and data processing: 5 samples were tested for each material, each sample was tested on both sides, and a total of 80 samples were obtained for each material. data points, and take the average to obtain the final data.



Features:

- 20 dBi WR-112 Waveguide Standard Gain Horn
- Polymethacrylimide
- Low Relative Permittivity (Dielectric Constant)
- Minimal reflection or attenuation of signal

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

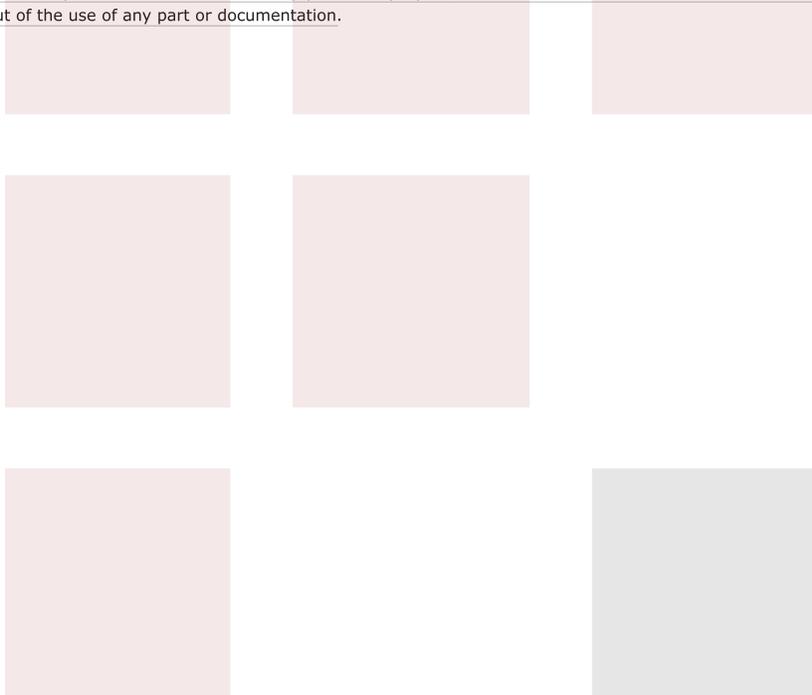
Compliance Certifications (see [product page](#) for current document)

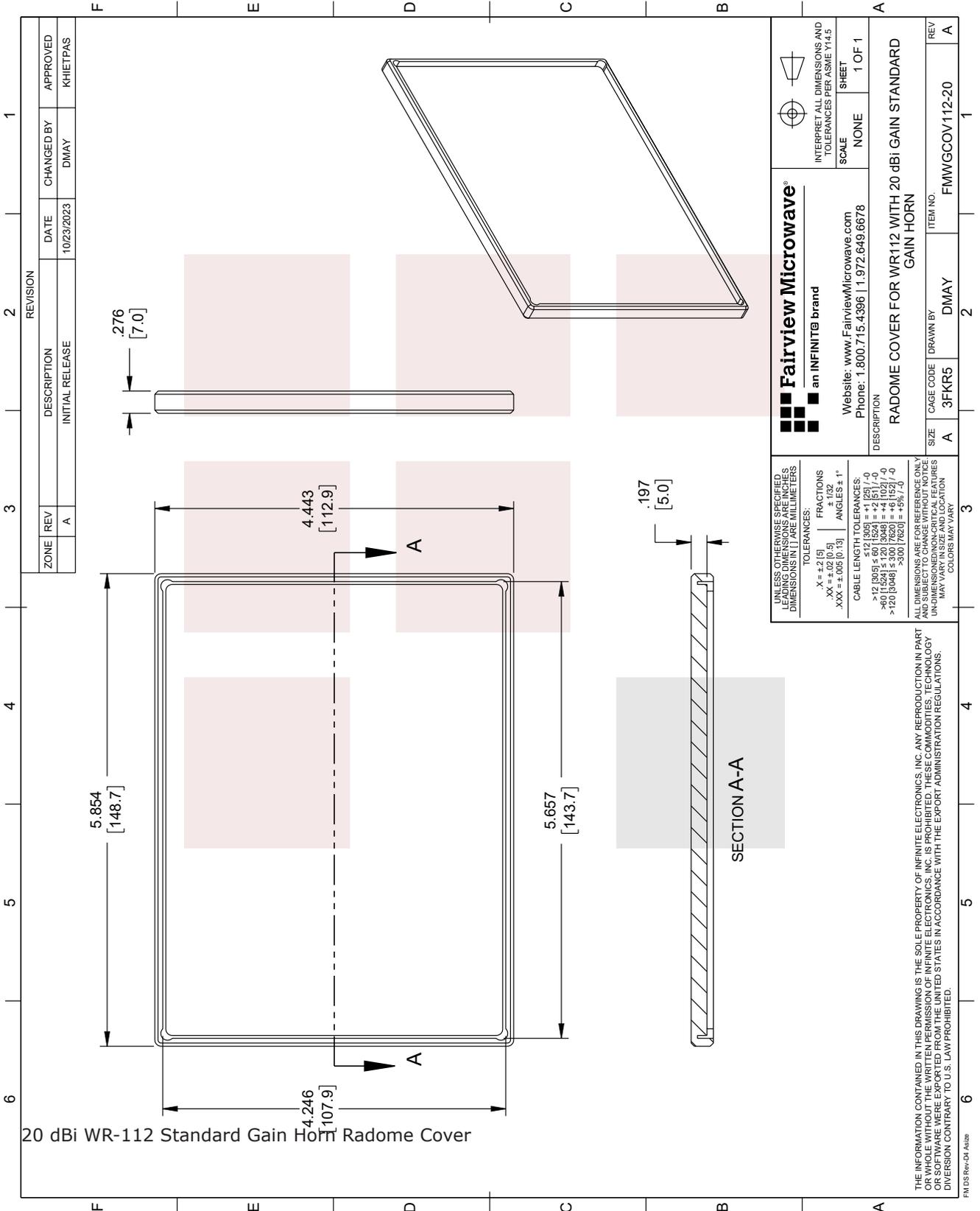
20 dBi WR-112 Standard Gain Horn Radome Cover from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dBi WR-112 Standard Gain Horn Radome Cover FMWGC0V112-20](#)

URL: <https://www.fairviewmicrowave.com/20-dbi-wr-112-standard-gain-horn-radome-cover-fmwgcov112-20-p.aspx>

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	INITIAL RELEASE	DMAY	KHIETPAS
	A	10/23/2023		

Fairview Microwave an INFINIT [®] brand Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: RADOME COVER FOR WR112 WITH 20 dBI GAIN STANDARD GAIN HORN		
SIZE: A	CAGE CODE: 3FKR5	ITEM NO.: FMWGC0V112-20
DRAWN BY: DMAY		REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5] | FRACTIONS ± 1/32
 .XX = ±.02 [0.5] | ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ± 1 [25] / -0
 ≤ 60 [1524] = ± 2 [51] / -0
 ≤ 90 [2286] = ± 3 [76] / -0
 ≤ 120 [3048] = ± 3 [76] / -0
 ≤ 300 [7620] = ± 6 [152] / -0
 > 300 [7620] = ± 6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENSIONED CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

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