

202 & 203 Series Prime Focus Parabolic Antennas



Features

- Low Cost
- High Directivity and Gain
- Simple Mechanical Design
- Moderate Sidelobe Performance
- Wide Range of Available Beamwidths and Reflector Sizes

Description 202 Series Parabolic Antennas

Mi-Wave's 202 series antenna consist of a parabolic reflector, a linearly-polarized primary feed, and a feed support assembly, that is attached to the rim of the reflector in order to position the feed accurately. Tapped holes are provided on each antenna for mounting.

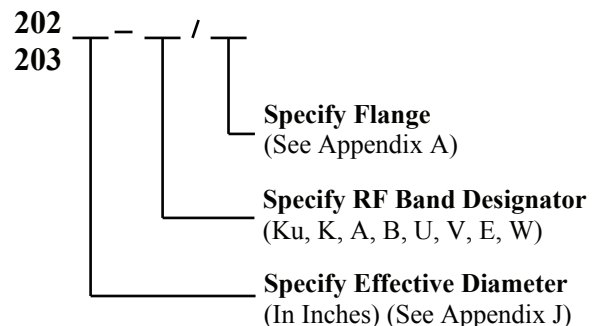
The 202 series antennas feature a precision aluminum reflector which provides excellent performance at millimeter wave frequencies between 18 to 140 GHz diameters from 3 to 24 inches are available. This design is recommended for frequencies where low surface tolerances (typically 0.001 inch RMS) are critical for electrical performance. The characteristics of the 202 series antennas makes them well-suited for applications where high performance is necessary.

For applications that require larger diameters, the 203 series antennas feature metallized fiberglass reflectors and cover a frequency range from 12.4 to 140 GHz. They are available in diameters from 18 to 120 inches with low surface tolerances (typically 0.0023 inch RMS).

Applications

Radar and Telemetry Systems
Point to Point Communication Links

Ordering Information



The center frequency should be specified when ordering these antennas. Beamwidths are typically $\pm 5\%$. Sidelobes are nominally -20dB. Boresight telescopes and boresighting are recommended and are available on request.

Mi-Wave

Millimeter Wave Products Inc.

www.miwv.com

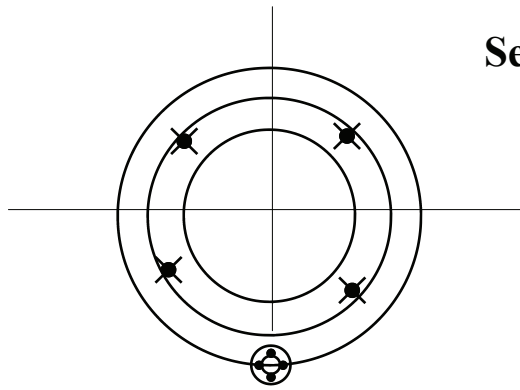
2200 Tall Pines Drive, Suite 100

Largo, FL 33771

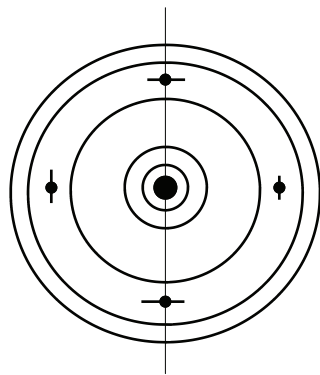
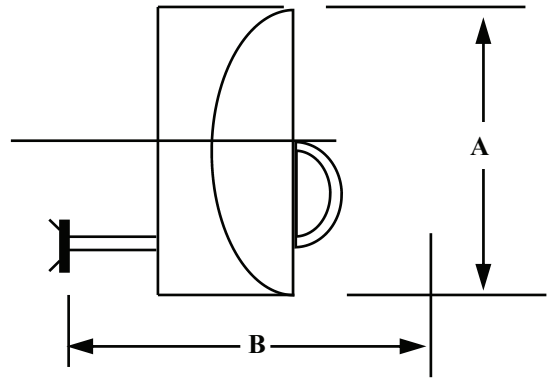
Tel. (727) 536-0033 Fax. (727) 536-0012

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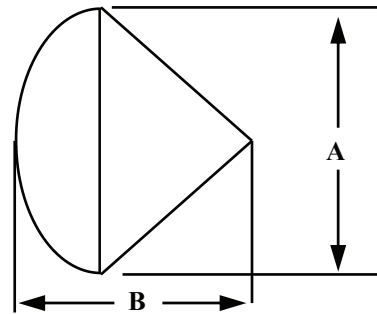
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Series 202



Series 203



Dimensional Specifications

Model No.	Effective Diameter (Inches)	A		B	
		in	mm	in	mm
202	3	3.4	86	3.7	94
202	6	7.3	185	5.1	129
202	12	15.0	381	10.5	266
202	18	22.0	558	11.0	279
202	24	28.2	716	15.7	399
202	36	_____	_____	_____	_____
202	48	_____	_____	_____	_____
203	3	_____	_____	_____	_____
203	6	_____	_____	_____	_____
203	12	_____	_____	_____	_____
203	18	11.8	300	22.0	558
203	24	15.0	381	27.4	696
203	36	20.3	515	39.2	996
203	48	23.5	597	54.0	1372

Please Note: Antenna feeds may vary due to reflector diameter and performance requirements. Please consult **Mi-Wave** for further information.

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