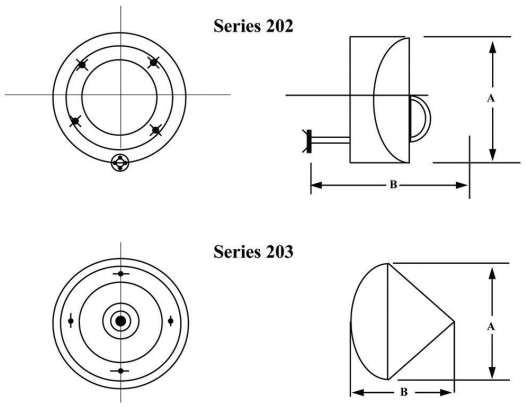

(Consult Factory for Current Outline Details

Description

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 reflector in order to position the feed accurately. Tapped holes are provided on each antenna for mounting.

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

The 202 Series antennas feature a precision aluminum reflector which provides excellent performance at millimeter wave frequencies between 18 to 140 GHz and 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 makes them well-suited for applications where high performance is necessary.

For applications that require larger diameters, the 203 Series antennas feature metalized fiberglass reflectors and cover a frequency range from 12.4 to 140 GHz. They are available in diameters from 18 to 72 inches with low surface tolerances (typically 0.0023 inch RMS).

Applications

Radar and Telemetry Systems
Point to Point Communication Links

Ordering Information

202
203 – – /

Specify Flange
(See Appendix A)

Specify RF Band Designator
(Ku, K, A, B, U, V, E, W)

Specify Effective Diameter
(In Inches) (See Appendix J)

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

Dimensional Specifications

Model No.	Effective Diameter	A		B	
	in.	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	22.0	558	11.8	300
203	24	27.4	696	15.0	381
203	36	39.2	996	20.3	515
203	48	54.0	1372	23.5	597

PLEASE NOTE:

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