



## MILLIMETERWAVE PRODUCTS AND CAPABILITIES

DATA  
SHEET  
No. B28B  
1 of 2

- INSTRUMENTATION TO 90 GHz
- ANTENNAS / COMPONENTS / SUBSYSTEMS
- MULTI-FREQUENCY / MULTI-POLARIZATION HORNS

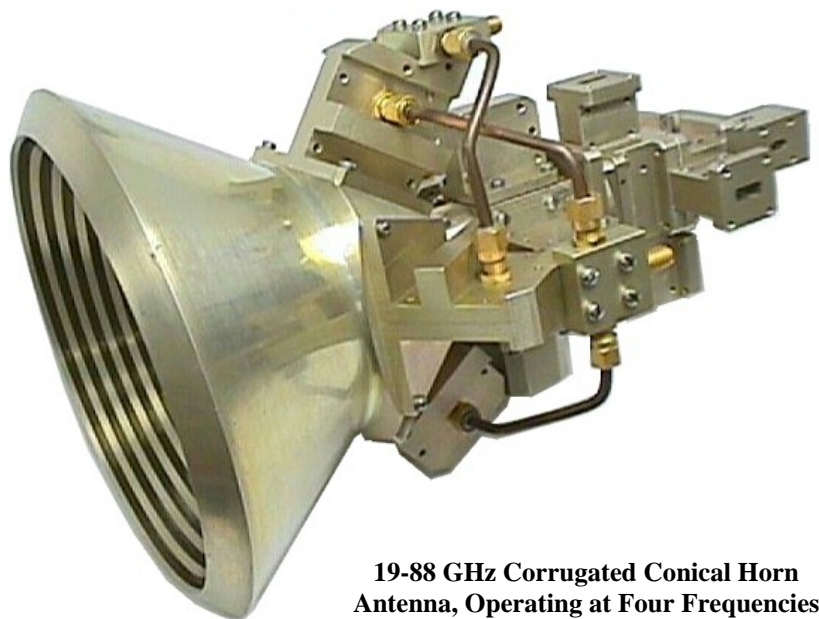
Microwave Engineering Corporation has an experienced engineering staff and complete facilities to provide millimeterwave components and engineering services to frequencies above 90 GHz. Extensive millimeterwave experience gained on programs such as radiometer antennas for NASA's Nimbus spacecraft has placed MEC in an excellent position to assist in system definition and to conduct components development. Examples of this and other components supplied to meet unique customer requirements are shown to the right and on the reverse. Product capability includes antennas (feed networks, polarizers, ortho mode transducer), couplers, filters, transitions, adapters, waveguide bends and twists, and other components.

MEC has total capability from conceptual design through production, including automated machining, waveguide bending and forming, dip brazing, testing and finishing. Because of this complete in-house control, quick turnaround is the usual at MEC, not the exception.

Custom components and assemblies are designed, developed, and manufactured, with schedules controlled to meet and satisfy customer needs. Our engineering staff will welcome your special inquiries and the opportunity to serve you.



50 to 60 GHz Antenna  
(Corrugated Conical Horn  
with Scanning Reflector and  
Ortho Mode Transducer)



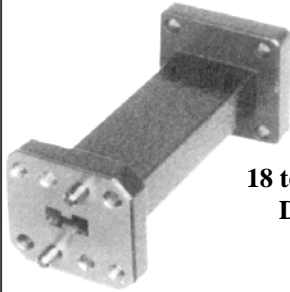
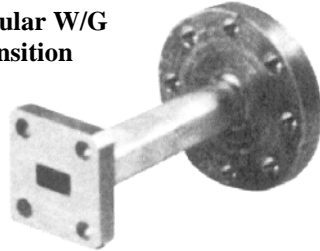
19-88 GHz Corrugated Conical Horn  
Antenna, Operating at Four Frequencies  
With Dual Polarization



# MILLIMETERWAVE PRODUCTS AND CAPABILITIES

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WR-28 TO Circular W/G  
Tapered Transition



18 to 26.5 GHz Tapered Transition  
Double-Ridge to Rectangular  
WRD-180C24 to WR042

26.5 - 40 GHz Adapter  
WR-28 to 2.4mm Coax



40 to 60 GHz  
WR-19 to 2.4 mm  
Plug



33-50 GHz Adapter  
WR-22 to 2.4mm Plug



18-40 GHz, WRD-180  
End-Launch to 2.92 mm Jack

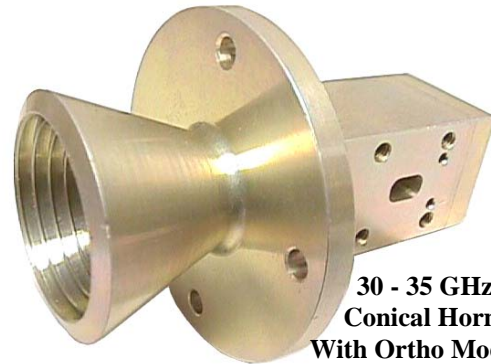
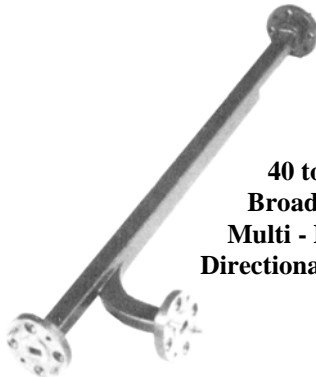


18-40 GHz Adapter  
WRD-180 to K Jack

18 to 40 GHz  
Broad - Wall  
Multi - Hole  
Directional Coupler  
40 dB directivity (Typ.)



40 to 60 GHz  
Broad - Wall  
Multi - Hole  
Directional Coupler



30 - 35 GHz Corrugated  
Conical Horn Antenna  
With Ortho Mode Transducer



18 - 40 GHz  
E-Plane Bend  
In WRD-180C24



33 - 50 GHz Termination  
in WRD-22