

Description

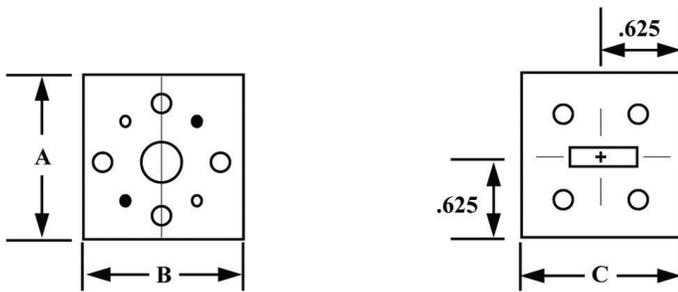
Mi-Wave's 281 Series Orthomode Transducer couples two orthogonal linearly polarized signals simultaneously while providing polarization isolation between transmit and receive.

Features

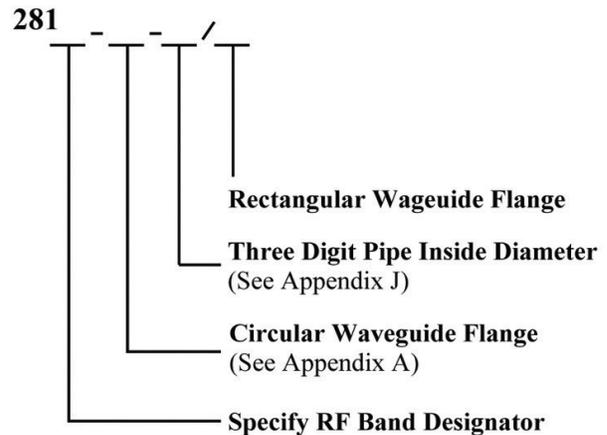
- *VSWR 1.2:1 typical*
- *Isolation > 30 dB typical*
- *Full Bandwidth Available*
- *Higher Frequency Units will be Quoted on Request*
- *Available from 12.4 to 220 GHz w3% or Greater Bandwidth*

Applications

The 281 Series used primarily in conjunction with the antenna product line, which can be combined with cassegrain, horn lens, or circular horn antennas to provide dual linear orthogonal/dual circular orthogonal polarization.



Ordering Information



| Dimensional Specifications | | | | | | | | |
|----------------------------|----------------------|------------------------------|------------|------------|------------|------------|------------|------------|
| Model No. | Frequency Band (GHz) | Bandwidth (GHz) ³ | A | | B | | C | |
| | | | in. | mm | in. | mm | in. | mm |
| 281K | 18.0–26.5 | 3 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281A | 26.5–40.0 | 4 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281B | 33.0–55.0 | 4 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281U | 40.0–60.0 | 5 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281V | 50.0–75.0 | 5 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281E | 60.0–90.0 | 5 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281W | 75.0–100.0 | 6 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281F | 90.0–140.0 | 6 | 1.25 | 31.8 | 1.25 | 31.8 | 1.25 | 31.8 |
| 281F | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 |
| 281F | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 | 90.0–140.0 |

1. Please specify circular waveguide size per appendix. Include both ends.
 2. For rectangular straight through, please add a Model No. 284-XXX at time of order.
 3. Wider bandwidths are available.

Consult for current dimensions