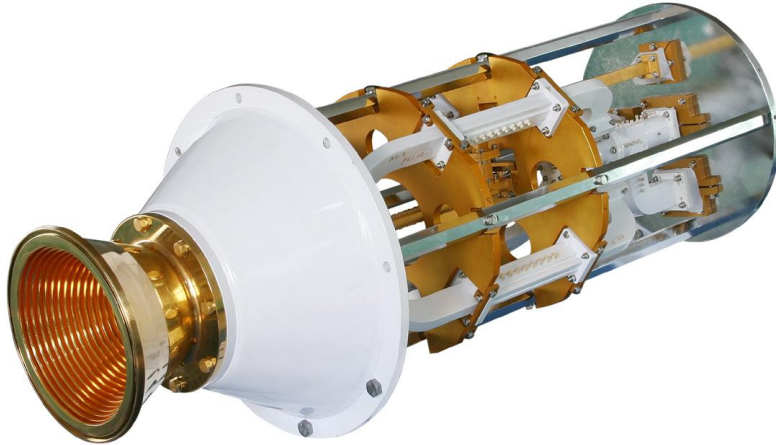


## CUSTOMER C BAND DIPLEXER(X&Ka)



### General Description:

Probecom Technologies designs, fabricates, and electrically tests waveguide filters and diplexers from 1-40 GHz for the commercial, military.

A full array of standard filters and diplexers is available for the various commercial and military frequency bands. Many are "off the shelf products". Custom designed filters and diplexers for specific customer applications are available.

### Technical Specification

|                                     |   |              |
|-------------------------------------|---|--------------|
|                                     | X/Ka Dual Band Network                        |              |
| Operating Frequency, GHz            | X   | Ka           |
|                                     | 7.25-7.75GHz                                  | 17.8-21.2GHz |
| Polarization                        | Dual Circular                                 |              |
| VSWR                                | 1.30:1  | 1.35:1       |
| Axial Ratio<br>(Circular-Polarized) | 1.06:1  | 1.15:1       |
| Interface                           | WR112   | WR42         |
| Insertion Loss, dB                  | ≤0.3dB  | ≤0.5dB       |
| Isolation                           | X- Band L/R-HCP=20dB<br>Ka- Band L/R-HCP=18dB |              |
| Standard and Option                 |   |              |
| Pressurization                      | No or Customized                              |              |
| Material                            | Copper Electroforming or Customized           |              |
| Exterior                            | White paint or Customized                     |              |