A1 Microwave is a leading designer and manufacturer of filters, diplexers, power combiners, couplers and adaptors for satcoms, telecoms, radar, medical and scientific applications.

A1 Microwave also provides standard and custom waveguide components and assemblies including: straights, bends, twists and flexibles.

A1 Microwave is ITAR free and provides a Fast delivery and No NRE (on standard designs) by using sophisticated in-house design and simulation software, all new designs are "right first time" allowing the design to move from the design computer to the machine shop without the need for prototyping. **Stock filters available for immediate despatch.**

A1 Microwave has in house CNC machining, turning, brazing, hard and soft soldering and bending facilities.

**Ordering information :- Model number PB1308WD Ku-band Satcom Diplexer**

Designed to connect a transmitter and a receiver to a common antenna port with minimum insertion loss and maximum isolation between the two channels.

- **Passbands**
  - 10.7 to 12.75 GHz and 13.75 to 14.5 GHz

- **Passband insertion loss**
  - 0.2 dB typical

- **Passband return loss**
  - 20 dB min

- **Rejection**:
  - of transmitter in RX arm: 110 dB min
  - of receiver in TX arm: 90 dB min

- **Overall length**: 150 mm

- **Port separation**: 80 mm (alternative separations are available)

- **Flanges**: UBR 120 (alternative flanges and coax interfaces available)