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 full in house CNC machining, turning, brazing, hard and soft soldering and bending facilities.

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**Ordering information :-** Model number **PB1412WA** 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**: 10.95 to 12.75 GHz and 13.75 to 14.5 GHz
- **Passband insertion loss**: 0.2 dB typical
- **Passband return loss**: 17 dB min
- **Rejection**: of transmitter in RX arm 45 dB min
  of receiver in TX arm 110 dB min

- **Overall size, waveguide centre lines**: 135 x 109 mm
- **Flanges**: UBR 120 (alternative flanges and coax interfaces available)