

A1 Microwave

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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.



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)

