

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.

Reflectionless
 Filters
 for :-
 Improved Axial Ratio
 With No G/T Degradation
 or Size Penalty



Ordering information :- Model number **PB2042WB-UB/UB-B** X-band transmit filter

Designed for X band satcoms transmitter applications for suppressing receive band noise

Includes absorption in the RX band to improve antenna axial ratio / cross polar isolation performance

Passband	7.9 to 8.4 GHz
Passband Insertion loss	0.25 dB typical, 0.3 dB max
Passband group delay variation	4.2 nS typical
Transmit band return loss	20 dB typical
<u>Receive band return loss</u>	<u>13 dB typical</u>
Rejection	from DC to 7.75 GHz
	90 dB min
Overall length	195 mm nominal
Flanges	UBR 84 (see web site for alternative flange and paint codes)

