

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 **PB2083WA-UB/UB-B** X-band transmit filter

Designed for X band satcoms transmitter applications for suppressing receive band noise and TX harmonics
[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		0.4 dB typical, 0.5 dB max
Transmit band return loss		20 dB typical
<u>Receive band return loss</u>		<u>11 dB typical</u>
Rejection	from DC to 7.75 GHz	90 dB min
	from 15.8 to 16.8 GHz	60 dB min
	from 23.7 to 25.2 GHz	90 dB min
	from 31.6 to 33.6 GHz	60 dB typical
Overall length		305 mm nominal
Flanges		UBR 84 (see web site for alternative flange and paint codes)

