

# 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 **PB13231B** C-band Satcom Upconverter Filter

Bandpass filter designed for C band satcoms upconverter applications for suppressing LO leakage from the mixer.

|                                |  |
|--------------------------------|--|
| Passband                       | 5.85 to 6.65 GHz                                   |
| Passband insertion loss        | 0.5 dB typical                                     |
| Passband return loss           | 18 dB typical                                      |
| Passband group delay variation | 1.3 ns typical                                     |
| Rejection:                     |  |
| from DC to 4.9 GHz             | 90 dB min  |
| from 7.6 to 13 GHz             | 90 dB min  |
| Overall length                 | 110 mm max   |
| Connectors                     | SMA female (alternative coax interfaces available) |

