

ATC 507-01

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ATC/4G H-PLANE FILTER

BSC have leveraged over 30 years of waveguide design experience to produce a range of filters suitable for incorporation into Air Traffic Control (ATC) systems either as a retrofit or new OEM design. Designs can be optimised for use within the transmit chain, protecting sensitive 4G/LTE mobile phones and base stations; or within the receive chain to mitigate the desensitising effects of adjacent 4G/LTE cell towers.

Passband:	2.75 to 3.1 GHz
Insertion Loss:	0.2 dB max
Insertion Loss Ripple:	0.05 dB pk-pk max / any 5 MHz band
Deviation from linear phase:	10° max / any 5 MHz band
Group Delay:	8 nS max
Amplitude tracking over freq and temp:	0.1 dB max – matched pair
Phase tracking over freq and temp:	10° max – matched pair
Return Loss:	17 dB min
Rejection from 1.5 to 2.57 GHz:	55 dB min
Rejection from 2.57 to 2.69 GHz:	65 dB min
Rejection from 3.4 to 3.6 GHz:	60 dB min
Rejection from 3.6 to 3.75 GHz:	50 dB min
Pulse Power Handling:	3 kW pk max, 100 µS pulse
Operating temperature:	0 to 50°C
Connectors:	PDR Flange
External Finish:	Matt Nato Green
Dimensions:	452 x 420 x 80 mm

