

# ATC 504-01

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## ATC/4G INLINE FILTER - COAX

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:                        | 2.745 to 3.055 GHz                                      |
| Insertion Loss:                  | 0.2 dB max  |
| Deviation from Linear Phase:     | 1° max / any 5 MHz                                      |
| Group Delay Variation:           | 60 nS max   |
| Return Loss:                     | 17 dB min   |
| Rejection from 2.5 to 2.675 GHz: | 55 dB min   |
| Rejection from 3.4 to 3.75 GHz:  | 60 dB min   |
| Power Handling:                  | 10 kW normal<br>65 kW in fault condition, 40 $\mu$ S PW |
| Operating temperature:           | 10 to 40°C  |
| Connectors:                      | N-Type Female<br>N-Type Male                            |
| External Finish:                 | Matt Black  |
| Dimensions:                      | 882 x 64 x 169 mm                                       |

