

TECHNICAL RECOMMENDATIONS

Polarisation Planes and Frequency Allocations



VERSION 1.0

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ASTRA 3 Satellites (23.5° East)

ASTRA 3A, positionned at 23.5° East, operates in the frequency range 11.45 to 11.70 GHz and 12.50 to 12.75 GHz. The channel spacing for ASTRA 3A is 40.0 MHz between co-polarised channels (There is no spacing between cross-polarised channels). The nominal -1 dB bandwidth of each channel is 36 MHz.

ASTRA 1D, positionned at 23.5° East, operates in the following frequency ranges:

- From 10.70 to 11.70 GHz and 12.50 to 12.75 GHz the channel spacing is 29.5 MHz between co-polarised channels (14.75 MHz between cross-polarised channels). The nominal -1 dB bandwidth of each channel is 26 MHz.
- From 11.70 to 12.50 GHz the channel spacing is 39.0 MHz between co-polarised channels (19.50 MHz between cross-polarised channels). The nominal -1 dB bandwidth of each channel is 33 MHz.

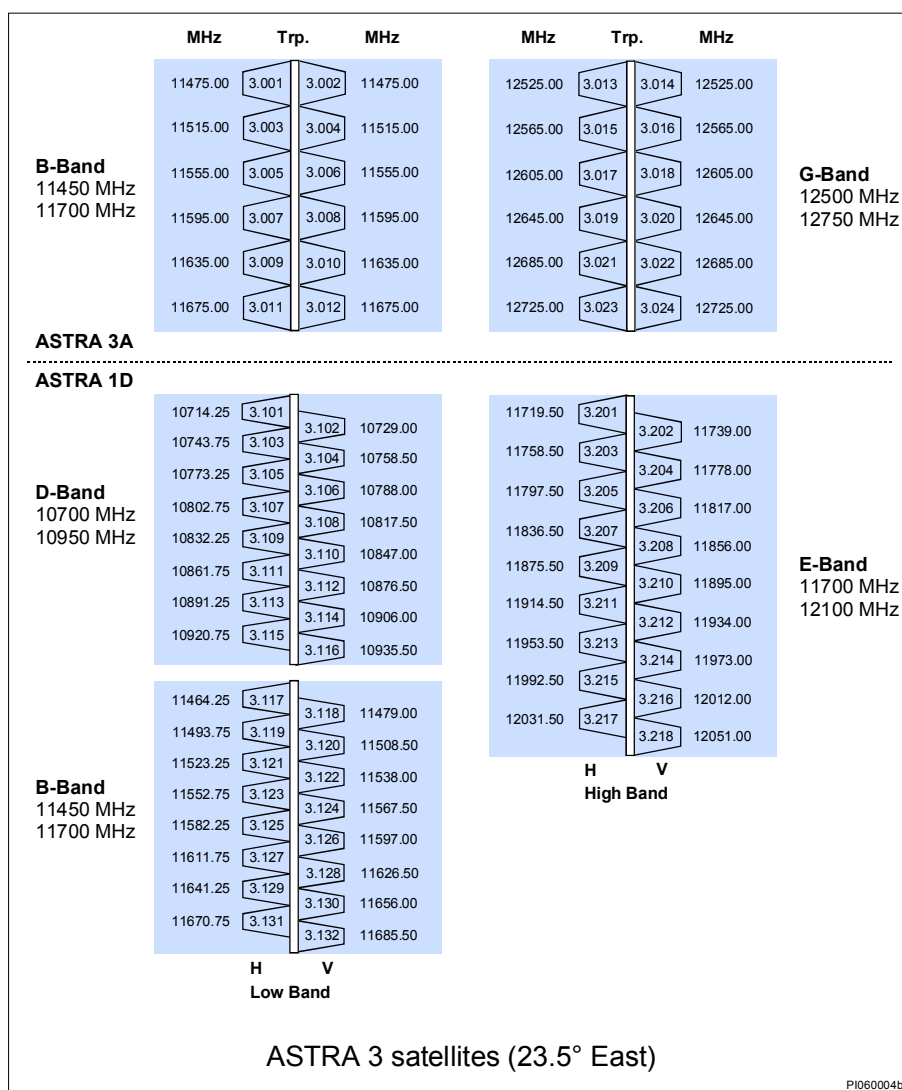


Figure 4: Channel Number Allocation and Downlink Centre Frequencies