

# AW3509-1 Data Sheet

## Antenna Array Containing Antenna B,C,D & Attached to Reflector

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6

### Antenna B

LTE band number	41
Frequency range	2496 – 2690 MHz
Average gain to RF connector	9 dBi
Azimuth HPBW	60° ± 10°
Elevation HPBW	35° ± 5°
Polarisation discrimination	18 dB
Front to back ratio	25 dB
Polarisation	Dual Slant ±45°
Electrical Down-tilt	0°
Impedance	50 ohms
First side-lobe level	≤ -15 dB
VSWR	≤ 1.5:1
Isolation between RF Ports	≥ 20 dB
Average transmission power per polarisation	26 dBm
Peak transmission power per polarisation	36 dBm
Recommended maximum dimensions (mm)	80 w x 170 h x 12 d (See Outline Drawing on P2)
Connector type	2 x U.FL male on 250 mm cable tail
Cable length & Connector Orientation	170mm R (B1 & B2)

### Antenna C&D

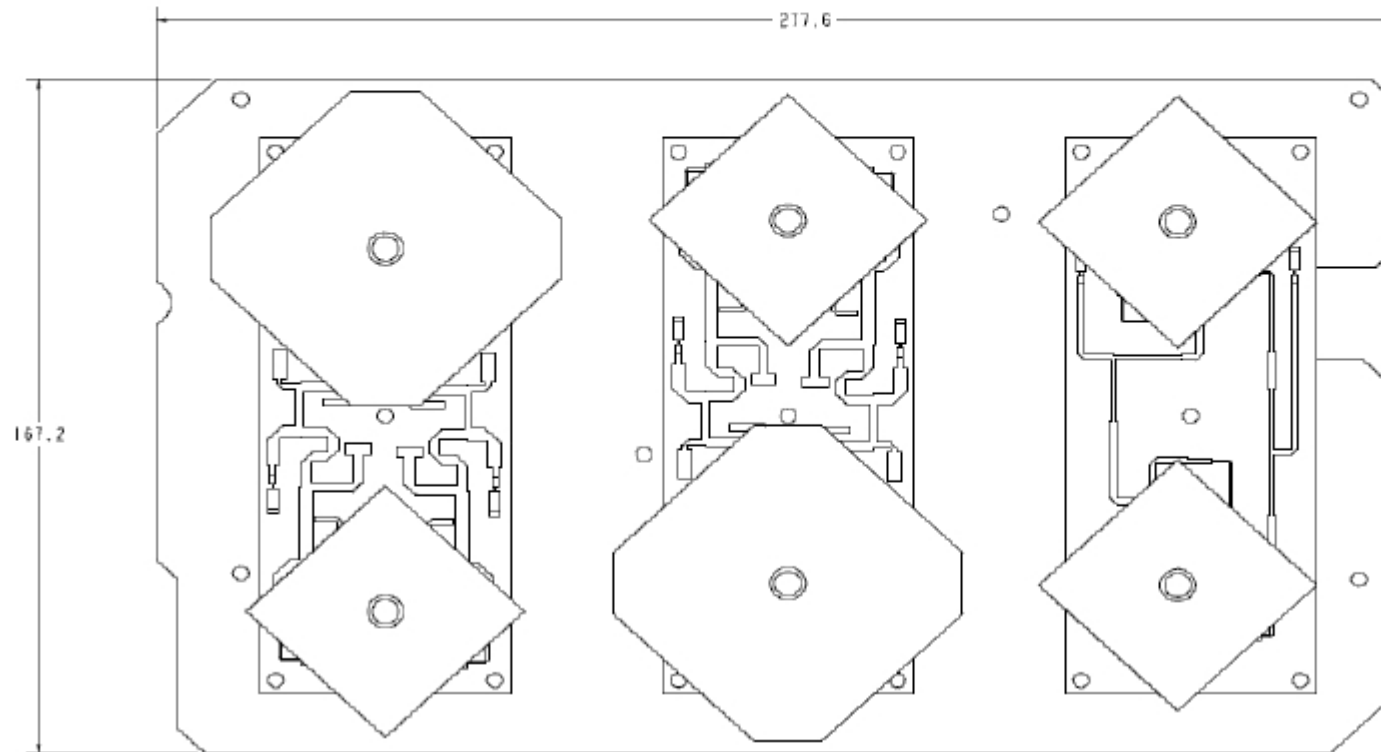
LTE band number	25	41
Frequency range	1850 – 1995 MHz	2496 – 2690 MHz
Average gain to RF connector	6 dBi	9.0 dBi
Azimuth HPBW	60° ± 10°	60° ± 10°
Elevation HPBW	30° 60° ± 10°	60° ± 10°
Polarisation discrimination	15 dB	18 dB
Front to back ratio	22 dB	25 dB
Polarisation	Dual Slant ±45°	
Electrical Down-tilt	0°	
Impedance	50 ohms	
First side-lobe level	≤ -15 dB	
VSWR	≤ 1.5:1	
Isolation between RF Ports	≥ 20 dB	
Average transmission power per polarisation	26 dBm	
Peak transmission power per polarisation	36 dBm	
Recommended maximum dimensions (mm)	105w x 170h x 15d (See Outline Drawing on P2)	
Connector type	2 x U.FL male on 250 mm cable tail	
Cable length & Connector Orientation	250mm R (C1 & C2) 240mm R (D1 & D2)	

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## AW3509-1 Outline Drawing

Antenna B 2496-2690 MHz,  
Antenna C&D 1850-1995 MHz and 2496-2690 MHz



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