

1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 MHz

6504108F6

5Xpol | 13° / 13° / 13° / 13° / 13° Az | 23.0 / 23.0 / 23.0 / 23.0 / 23.0 dBi | 6° FET | 874 x 856 x 152 mm

- Penta band, dual polarisation, split beam antenna with 10 connectors
- Fixed tilt on each band 6° / 6° / 6° / 6° / 6°

ORDERING OPTIONS	MODEL NUMBER
7/16-DIN Female Connectors	6504108F6
4.3/10 Female Connectors	6504108NF6



ACCESS PORT DESCRIPTION (CONNECTORS)					
This split beam antenna has 10 colour-coded connectors located at the bottom face of each sector.					
Frequency Designation	B1	B2	B3	B4	B5
Frequency Range	1710-2170 MHz	1710-2170 MHz	1710-2170 MHz	1710-2170 MHz	1710-2170 MHz
Polarisation	Xpol	Xpol	Xpol	Xpol	Xpol
Horizontal Beamwidth	13°	13°	13°	13°	13°
Fixed Electrical Downtilt	6°	6°	6°	6°	6°
Connector Type	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female

ELECTRICAL CHARACTERISTICS	B1 (Left Array +40°)		
	Frequency Bands	1710-2170 MHz	
	1710-1880 MHz	1880-2025 MHz	2025-2170 MHz
Gain	21.0 ± 1.1 dBi	21.7 ± 0.7 dBi	22.2 ± 0.7 dBi
Input Impedance	50Ω		
VSWR	< 1.43		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	15° ± 2.9°	13° ± 2.0°	10° ± 1.5°
Vertical Beamwidth (-3 dB)	12.5° ± 2.7	11.5° ± 2.3°	10.5° ± 2.6°
Horizontal Beam Pointing	+44°	+40°	+36°
Fixed Electrical Downtilt	6°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection, Peak to 20°	19.5 dB	19.1 dB	18.2 dB
Front-to-Back Ratio, 180° ± 30°	34.9 dB	33.9 dB	31.1 dB
Power Rating (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

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ELECTRICAL CHARACTERISTICS	B2 (Left Array +19°)		
	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1880-2025 MHz	2025-2170 MHz
Gain	21.0 ± 1.1 dBi	21.7 ± 0.7 dBi	22.2 ± 0.7 dBi
Input Impedance	50Ω		
VSWR	< 1.43		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	15° ± 2.9°	13° ± 2.0°	10° ± 1.5°
Vertical Beamwidth (-3 dB)	12.5° ± 2.7	11.5° ± 2.3°	10.5° ± 2.6°
Horizontal Beam Pointing	+21°	+19°	+17°
Fixed Electrical Downtilt	6°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection, Peak to 20°	19.5 dB	19.1 dB	18.2 dB
Front-to-Back Ratio, 180° ± 30°	34.9 dB	33.9 dB	31.1 dB
Power Rating (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

ELECTRICAL CHARACTERISTICS	B3 (Center Array ±0°)		
	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1880-2025 MHz	2025-2170 MHz
Gain	21.0 ± 1.1 dBi	21.7 ± 0.7 dBi	22.2 ± 0.7 dBi
Input Impedance	50Ω		
VSWR	< 1.43		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	15° ± 2.9°	13° ± 2.0°	10° ± 1.5°
Vertical Beamwidth (-3 dB)	12.5° ± 2.7	11.5° ± 2.3°	10.5° ± 2.6°
Horizontal Beam Pointing	0°	0°	0°
Fixed Electrical Downtilt	6°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection, Peak to 20°	19.5 dB	19.1 dB	18.2 dB
Front-to-Back Ratio, 180° ± 30°	34.9 dB	33.9 dB	31.1 dB
Power Rating (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

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1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 MHz

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5Xpol | 13° / 13° / 13° / 13° / 13° Az | 23.0 / 23.0 / 23.0 / 23.0 / 23.0 dBi | 6° FET | 874 x 856 x 152 mm

ELECTRICAL CHARACTERISTICS	B4 (Right Array -19°)		
	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1880-2025 MHz	2025-2170 MHz
Gain	21.0 ± 1.1 dBi	21.7 ± 0.7 dBi	22.2 ± 0.7 dBi
Input Impedance	50Ω		
VSWR	< 1.43		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	15° ± 2.9°	13° ± 2.0°	10° ± 1.5°
Vertical Beamwidth (-3 dB)	12.5° ± 2.7	11.5° ± 2.3°	10.5° ± 2.6°
Horizontal Beam Pointing	-21°	-19°	-17°
Fixed Electrical Downtilt	6°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection, Peak to 20°	19.5 dB	19.1 dB	18.2 dB
Front-to-Back Ratio, 180° ± 30°	34.9 dB	33.9 dB	31.1 dB
Power Rating (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

ELECTRICAL CHARACTERISTICS	B5 (Right Array -40°)		
	1710-2170 MHz		
Frequency Bands	1710-1880 MHz	1880-2025 MHz	2025-2170 MHz
Gain	21.0 ± 1.1 dBi	21.7 ± 0.7 dBi	22.2 ± 0.7 dBi
Input Impedance	50Ω		
VSWR	< 1.43		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	15° ± 2.9°	13° ± 2.0°	10° ± 1.5°
Vertical Beamwidth (-3 dB)	12.5° ± 2.7	11.5° ± 2.3°	10.5° ± 2.6°
Horizontal Beam Pointing	-44°	-40°	-36°
Fixed Electrical Downtilt	6°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection, Peak to 20°	19.5 dB	19.1 dB	18.2 dB
Front-to-Back Ratio, 180° ± 30°	34.9 dB	33.9 dB	31.1 dB
Power Rating (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

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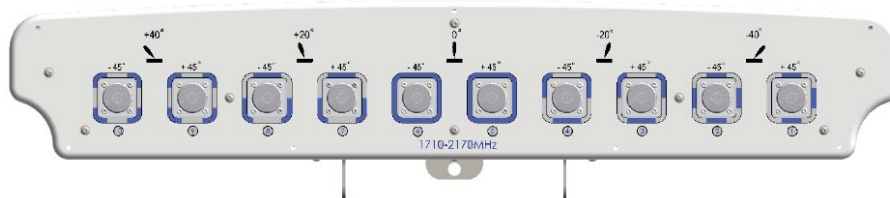
1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 | 1710-2170 MHz

6504108F6

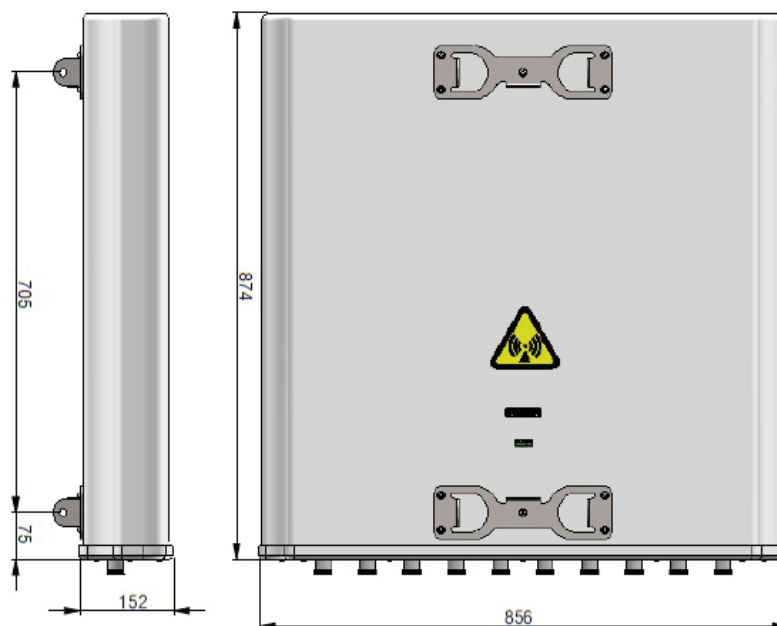
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ENVIRONMENTAL CHARACTERISTICS		
Operating Temperature Range	-40° C to +70° C	
Lightning Protection	DC Ground	
Relative Humidity (at 30° C)	95%	
MECHANICAL CHARACTERISTICS		
Dimensions	Height: 874 mm Width: 856 mm Depth: 152 mm	
Weight	28 kg	
Shroud	Fiberglass	
Survival Wind Speed	200 km/hr	
Wind Load at 160 km/h	Front: 732 N; Lateral: 162 N; Rear: 915 N	
PACKING CHARACTERISTICS		
Packing Dimensions	Height: 1000 mm Width: 966 mm Depth: 246 mm	
Packing Weight	41 kg	
MOUNTING CHARACTERISTICS	PIPE DIAMETER	ADJUSTABLE DOWNTILT
Mounting & Downtilt Kit (Included)	Ø70-Ø114 mm	0-10°

Bottom View of Antenna



Dimensions (in mm)



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