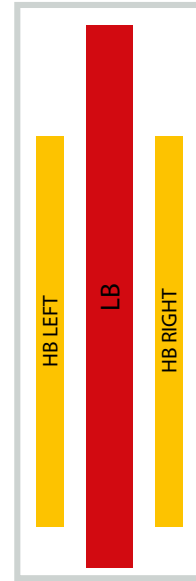


Filtronic Next Generation Base Station Antennas

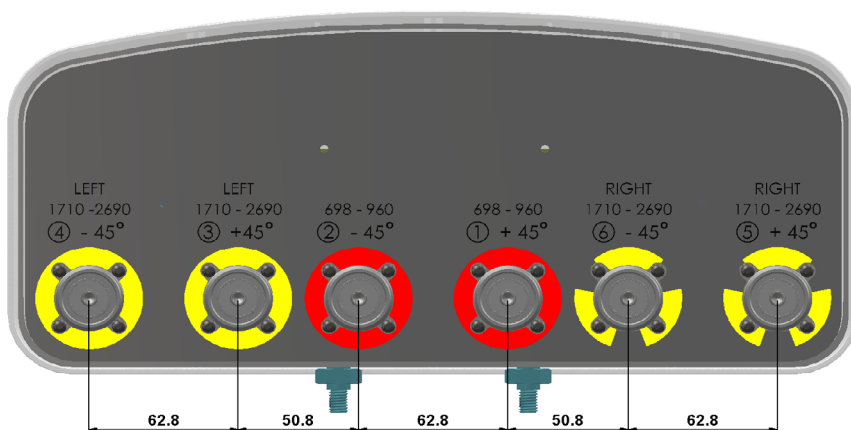
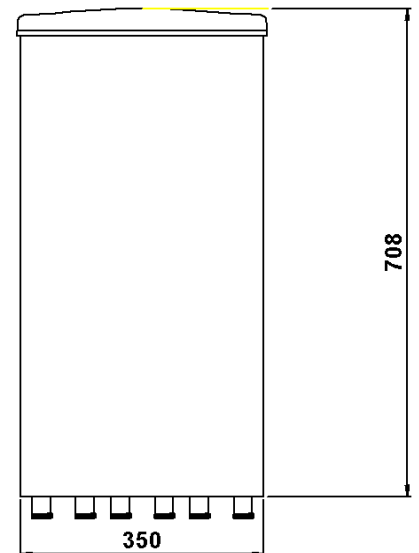
- Innovative Ultra Wide Band Slotted Disc Antenna Technology.
- Supports MIMO: 2x2 on Low Band and 4x4 on High Band.
- Suitable for Stadium and Street Cell applications.

	LB	HB LEFT	HB RIGHT
Frequency Range	694-960	1695-2690	1695-2690
Gain Over All Tilts [dBi]	12.2	14.7	14.7
Polarization	X	X	X
Azimuth Beamwidth [°]	65	65	65
Electrical Downtilt [°]	8	4	4
Ports Per Band	2	2	2



Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Width, Depth [mm]	708 x 350 x 154
Net Weight (Antenna) [kg]	8
Connector Type	7/16 DIN Female (long neck)
Connector Quantity	6
Connector Position	Bottom
Windload, Calculation [km/h]	150
Windload, Maximum [N]	330
Windload, Frontal [N]	265
Windload, Lateral [N]	50
Survival Wind Speed [km/h]	241
Radome Material	GRP
Radome Color [RAL]	7035 (Light gray)
Product Environmental Compliance	RoHS
Mechanical Distance Between Mounting Points - Antenna [mm]	567
Lightning Protection	DC ground



ELECTRICAL SPECIFICATIONS	LB			HB LEFT/RIGHT			
Frequency Range [MHz]	699-798	791-862	880-960	1710-1880	1920-2170	2300-2500	2500-2690
Gain, Average [dBi]	12.0	12.2	12.5	14.3	15.0	15.4	15.5
Gain, Over All Tilts [dBi]	12.0 ±0.5	12.2 ±0.5	12.5 ±0.5	14.3 ±0.5	15.0 ±0.5	15.4 ±0.5	15.5 ±0.5
Azimuth Beamwidth [°]	70.6 ±4	66.0 ±3	62.0 ±4	65.0 ±6	67.0 ±5	62.0 ±4	60.0 ±5
Elevation Beamwidth [°]	34.7 ±2.5	31.7 ±1.5	28.3 ±2.0	14.0 ±1.2	12.2 ±1.5	10.2 ±0.7	9.7 ±0.5
Electrical Downtilt [°]	8			2x 4			
Elevation Downtilt Deviation [°]	1.4	1.2	1.2	0.7	0.7	0.5	0.8
Front-to-Back Ratio, Total Power, ±30° [dB]	22	22	22	25	25	25	25
Cross Polar Discrimination Over Sector [dB]	12	12	10	10	10	10	10
Cross Polar Discrimination Over 3dB Az. BW [dB]	18	15	15	13	13	15	16
First Upper Side Lobe Suppression [dB]	20	18	18	17	16	17	16
Upper Side Lobe Suppression [dB]	19	17	17	17	15	15	16
Polarization [°]	±45			±45			
Impedance [Ω]	50			50			
VSWR	< 1.5:1			< 1.5:1			
Return Loss [dB]	< -14.0			< -14.0			
Cross Polar Isolation [dB]	30			30			
Interband Isolation [dB]	35			35			
Passive Intermodulation [dBc]	< -153			< -153			
Maximum Effective Power Per Port [W]	350			350			

SHIPPING VARIANT

Packing Size: Length, Width, Depth [mm]	1000 x 500 x 300	
Fixed Bracket: Shipping Weight [kg], P/N	13.5	P6T2BF01-V1-P
Tilt Bracket: Shipping Weight [kg], P/N	15.0	P6T2BF01-V2-P

ENVIRONMENTAL COMPLIANCE

ETSI EN300019-1-1 for Storage	Class 1.2
ETSI EN300019-1-2 for Transportation	Class 2.3
ETSI EN300019-1-4 for Environmental Conditions	Class 4.1E
Cold Temperature Survival [°C]	-40
Hot Temperature Survival [°C]	60

Network planning files and datasheet in NGMN XML formats are available on request by email to fwlsales@filtronic.com.

Filtronic follows the definitions and recommendations per NGMN P-Basta version 10.0 (www.ngmn.org) within parameters shown on this datasheet.

All specifications are subject to change without notice. Visit www.filtronic.com for the most current datasheets.

Contact Us

Filtronic House | 3 Airport West | Lancaster Way | Yeadon | LS19 7ZA | UK

+44 (0) 113 220 0000

fwlsales@filtronic.com

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