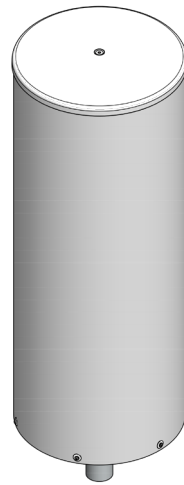


## Filtronic Next Generation Base Station Antennas

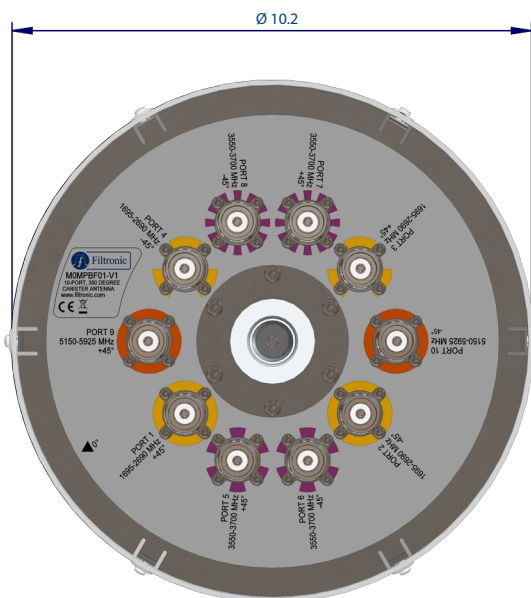
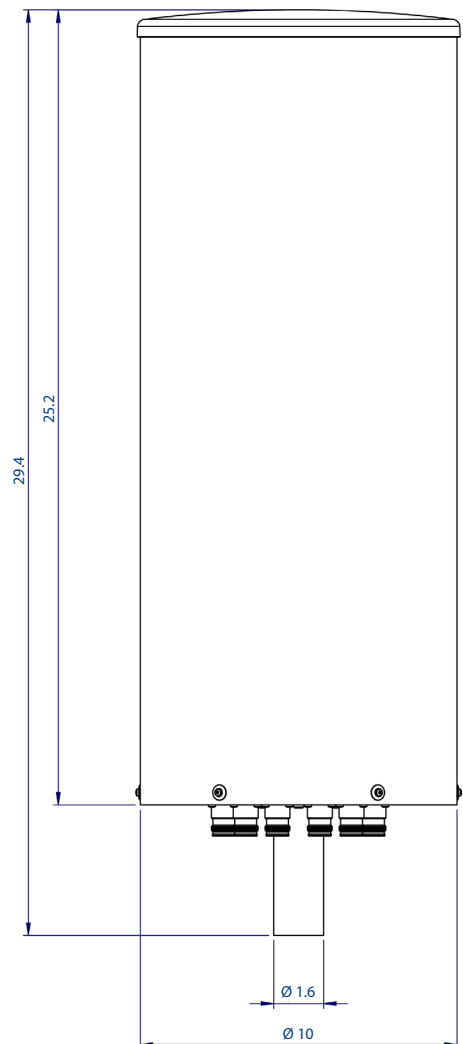
- Innovative Ultra Wide Band Slotted Disc Antenna Technology.

	HB 1	HB 2	HB 3
Frequency Range	1695-2690	3550-3700	5150-5925
Gain Over All Tilts [dBi]	9.3	8.8	5.5
Polarization	X	X	X
Azimuth Beamwidth [°]	360	360	360
Electrical Downtilt [°]	2	2	2
Ports Per Band	4	4	2



## Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [in]	25.2 x 10
Net Weight (Antenna) [lb]	15.6
Connector Type	4,3-10
Connector Quantity	10
Connector Position	Bottom
Windload, Calculation [mph]	93.2
Windload, Maximum [lbf]	19
Survival Wind Speed [mph]	150
Radome Material	ASA
Radome Color [RAL]	7035
Product Environmental Compliance	RoHS
Lightning Protection	DC Ground



ELECTRICAL SPECIFICATIONS	HB 1					HB2	HB 3
	Frequency Range [MHz]	1695-1780	1850-1995	2095-2200	2300-2400	2496-2690	3500-3700
Gain, average [dBi]	8.5	8.8	9.3	9.8	10.5	8.8	5.5
Azimuth Beamwidth [°]	360 (pseudo)					360 (pseudo)	360 (pseudo)
Elevation Beamwidth [°]	19.0 ±4.0					19.0 ±1.0	25.25±5.0
Electrical Downtilt [°]	2	2	2	2	2	2	2
Elevation Downtilt Deviation [°]	1	1	1	1	1	1	2
Cross Polar Discrimination Over Sector [dB]	12	15	15	12	12	8	8
First Upper Side Lobe Suppression [dB]	17	17	17	17	17	16	15
Upper Side Lobe Suppression [dB]	15	15	15	15	15	15	15
Polarization [°]	±45					±45	±45
Impedance [Ω]	50					50	50
VSWR	< 1.5:1					< 1.5:1	< 1.5:1
Return Loss [dB]	< -14.0					< -14.0	< -14.0
Cross Polar Isolation [dB]	25					25	25
Interband Isolation [dB]	25					25	25
Passive Intermodulation [dBc]	< -153					< -150	-
Maximum Effective Power Per Port [W]	100					50	10

SHIPPING VARIANT	
Packing Size: Length, Width, Depth [in]	34 x 18 x 18
Shipping Weight [lb], P/N	25 MOMPBF01-V1-P1

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 [°F]	-40
Hot Temperature Survival [°F]	140

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

All specifications are subject to change without notice. Visit [www.filtronic.com](http://www.filtronic.com) for the most current datasheets.

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