

# M0MDBF01

4-Port, 360 Degree, Small Cell Canister Antenna

## Kaelus Next Generation Base Station Antennas

- Innovative Slotted Disc Antenna Technology



GENERAL	MB Y1/Y2
Frequency Range	1695-2690
Gain Over All Tilts [dBi]	12
Polarization	X
Azimuth Beamwidth [°]	360
Electrical Downtilt [°]	2
Ports Per Band	4

## Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [inch mm]	25.2x10   640x254
Net Weight (Antenna) [lbs kg]	17.6   8.0
Connector Type	4.3-10
Connector Quantity	10
Connector Position	Bottom
Windload, Calculation* [mph km/h]	93.2   150
Windload, Maximum [lbfN]	19.1   85
Survival Wind Speed [mph km/h]	124.3   200
Radome Material	ASA
Radome Color [RAL]	7035 (light gray)
Product Environmental Compliance	RoHS
Lightning Protection	DC Ground
* According to EN 1991-1-4:2005+A 1:2010	

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ELECTRICAL SPECIFICATIONS	MB Y1/Y2				
Frequency Range [MHz]	1695-1880	1920-1990	2110-2170	2300-2400	2496-2690
Gain, average [dBi]	11.0	11.5	11.8	12.3	12.8
Azimuth Beamwidth [°]	360 (pseudo)				
Elevation Beamwidth [°]	12.5 ±4.0				
Electrical Downtilt [°]	2	2	2	2	2
Elevation Downtilt Deviation [°]	1	1	1	1	1
First Upper Side Lobe Suppression [dB]	17	17	17	17	17
Upper Side Lobe Suppression [dB]	15	15	15	15	15
Polarization [°]	±45				
Impedance [Ω]	50				
VSWR	< 1.5:1				
Return Loss [dB]	< -14.0				
Cross Polar Isolation [dB]	25				
Interband Isolation [dB]	25				
Passive Intermodulation [dBc]	< -153				
Maximum Effective Power Per Port [W]	100				

SHIPPING AND ORDER INFORMATION	
Packing Size: Length, Width, Depth [inch mm]	34x18x18   864x458x458
Shipping Weight [lbs kg]	26.5   12 M0MDBF01-V1-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 [°F °C]	-40   -40
Hot Temperature Survival [°F °C]	140   60

ADDITIONAL ACCESSORIES (AVAILABLE TO ORDER)	
Side Pole/Wall Mount Kit (incl. cover)	KIT-000039-P
Top Pole Mount Kit [2.4-6.3 inch 60-160mm] (incl. cover)	KIT-000040-P
Top Pole Mount Kit [5.5-8.7 inch 140-220mm] (incl. cover)	KIT-000041-P



Network planning files and datasheet in NGMN XML formats are available on request by email.

Kaelus follows the definitions and recommendations per NGMN P-Basta version 11.1 ([www.ngmn.org](http://www.ngmn.org)) within parameters shown on this datasheet.

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

