

# MPMQBF01

8-Port, back-to-back, Small Cell Canister Antenna

## Kaelus Next Generation Base Station Antennas

- Innovative slotted disc antenna technology
- Back-to-back pattern for street/highway coverage
- Supports 4x4 MIMO

GENERAL	MB Y1/Y2/Y3/Y4
Frequency Range [MHz]	1695-2690
Gain [dBi]	8.0
Polarization	X
Azimuth Beamwidth [°]	65
Electrical Downtilt [°]	2
Ports	8

## Specifications and Layouts

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [inch mm]	25.2x10.0   640x254
Net Weight (Antenna) [lbs kg]	17.6   8.0
Connector Type	4.3-10 female
Connector Quantity	8
Connector Position	Bottom
Windload, Calculation* [mph km/h]	93.2   150
Windload, Maximum [lbf N]	19.1   85
Survival Wind Speed [km/h]	124.3   200
Radome Material	ASA
Radome Colour [RAL]	7035
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/Y3/Y4				
Frequency Range [MHz]	1695-1780	1850-1995	2095-2200	2300-2400	2496-2690
Gain, average [dBi]	7.3	7.6	8.1	8.6	9.3
Azimuth Beamwidth [°]	70 ±5.0	68 ±5.0	65 ±5.0	65 ±5.0	63 ±5.0
Elevation Beamwidth [°]	25.0 ±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		±45		
Impedance [Ω]	50		50		
VSWR	< 1.5:1		< 1.5:1		
Return Loss [dB]	< -14.0		< -14.0		
Cross Polar Isolation [dB]	25		25		
Interband Isolation [dB]	25		25		
Passive Intermodulation (PIM) 3rd order, 2x20W [dBc]	< -153		< -153		
Maximum Effective Power Per Port [W]	100		100		

SHIPPING AND ORDER INFORMATION	
Packing Size: Length, Width, Depth [mm]	34x18x18   864x458x458
Shipping Weight [kg]	26.5   12.0   MPMQBF01-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

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.

