

CYL-QAP-2

Small Cell Cantenna, Quad 1695-2180MHz, 2FT

- X-Pol Small Cell
- Suitable for Pole or Building mount
- Broadband Radiators (AWS-3)
- Internal Beam combining
- Integrated Global Position System (GPS) option
- Suitable for AWS/PCS/LTE/Neutral Host
- Possible to deploy 4x4 MIMO application in HB



ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	2 x 1695-2180		
Polarization	+/-45°		
Electrical Down Tilt	0°		
VSWR/Return Loss, dB, Maximum	1.5:1/14.0		
Isolation Between Ports, dB, Minimum	28		
Intermodulation (2x20w), IM3, dBc, Maximum	-153		
Impedance, ohms	50		
Maximum Power Per Connector, CW (w)	125		

MECHANICAL SPECIFICATIONS					
Dimensions, Height/Diameter	24.2/15.1 in (613/384 mm)				
Antenna RF Connector Type	7/16 DIN Female				
Antenna RF Connector Torque	DIN 220-265 lbf-in (23-30 N-m)				
GPS Connector Type	Mini DIN Female (4.1-9.5 per IEC 61169-4)				
GPS Connector Torque	Mini-DIN 88.5 lbf-in (10 Nm)				
Connector Location	Bottom				
Radome Material	PVC				
Wind Survival	150 mph (241 km/h)				
Front Wind Load	45.9 lbf (204.18N) @100mph				
Equivalent Flat Plate	0.91 sq-ft (c=2) @ 100mph				



ELECTRICAL SPECIFICATIONS (based on Antenna configuration)

Antenna Model	No. of beams	1695-1880		1850-1990		1920-2180	
		H-Beam V-Beam	Gain (dBi)	H-Beam V-Beam	Gain (dBi)	H-Beam V-Beam	Gain (dBi)
CYL-QAP-2-C	1	*360° 16.7°	8.7	*360° 15.3°	9.2	*360° 14.5°	9.8
CYL-QAP-2-H	1	*240° 17.6°	10.0	*240° 15.5°	10.6	*240° 14.8°	11.2
CYL-QAP-2-P	1	*180° 17.2°	10.4	*180° 16.3°	10.3	*180° 15.5°	10.5
CYL-QAP-2-T	3	66.0° 16.8°	14.0	62.4° 15.4°	14.4	59° 14.6°	15.0
CYL-QAP-2-B	2	68.9° 17.1°	13.9	63.4° 15.6°	14.3	59.3° 14.8°	14.9

* Beam Width represented for functional purposes only. See pattern diagram for beam shape*

MECHANICAL SPECIFICATIONS (based on Antenna configuration)

		Connec	tor Types	Antenna Weight		
ANTENNA MODEL	BEAM CONFIGURATION	RF Interface- 7/16 DIN	GPS interface Mini-DIN	Antenna	Antenna with GPS	
CYL-QAP-2-C	Omni Clover (360°)	4	1	23.0 lbs (10.4 kg)	24.0 lbs (10.9 kg)	
CYL-QAP-2-H	Omni Heart (240°)	4	1	21.5 lbs (9.6 kg)	22.5 lbs (10.2 kg)	
CYL-QAP-2-P	Omni Peanut (180º)	4	1	20.5 lbs (9.3 kg)	21.5 lbs (9.8 kg)	
CYL-QAP-2-T	Tri-Sector	12	1	25.0 lbs (11.4 kg)	26.0 lbs (11.8 kg)	
CYL-QAP-2-B	Bi-Sector	8	1	22.0 lbs (10.0 kg)	23.0 lbs (10.5 kg)	

GPS SPECIFICATIONS

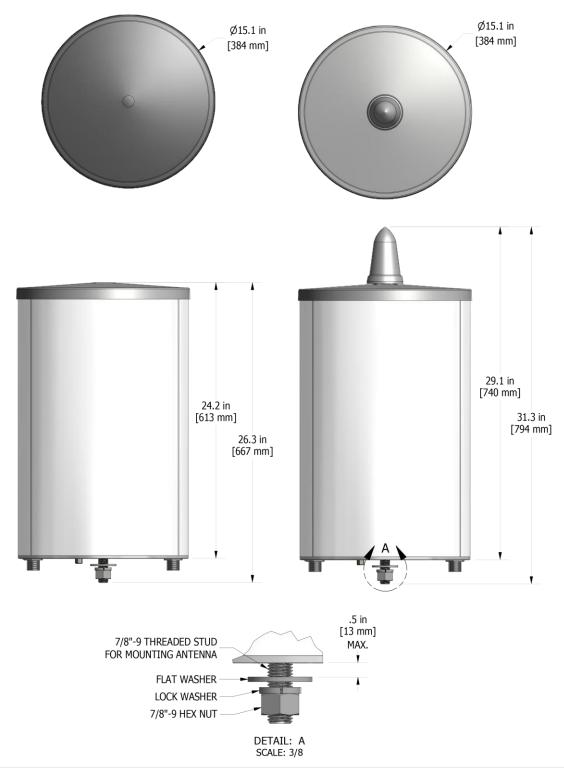
Frequency	Amplifier Gain	VSWR	Max Noise	Voltage Range	Current @ 5V	Filtering	Out of band rejection	Lightening protection
1575.42Mhz ±1.2Mhz	26.5dB ± 3dB	<2.0:1	4.5dB @ 25°C	3.3 - 12V regulated	40mA	4 stages including pre-selector	65dB @ 1559Mhz 65dB @ 1625Mhz	



ORDER INFO	ORMATION
Models	Description
CYL-QAP-2-C	OMNI CLOVER
CYL-QAP-2-C	Cantenna with 4 DIN connectors Clover Omni pattern
CYL-QAP-2-H	OMNI HEART
CYL-QAP-2-H	Cantenna with 4 DIN connectors Heart Omni pattern
CYL-QAP-2-P	OMNI PEANUT
CYL-QAP-2-P	Cantenna with 4 DIN connectors Peanut Omni pattern
CYL-QAP-2-T	THREE SECTORS
CYL-QAP-2-T	Cantenna with 12 DIN connectors (3) 65° sectors
CYL-QAP-2-B	TWO SECTORS
CYL-QAP-2-B	Cantenna with 8 DIN connectors (2) 65° sector

Please refer to Fixed tilt antenna matrix for Small cell Site Solutions and mounting bracket ordering information

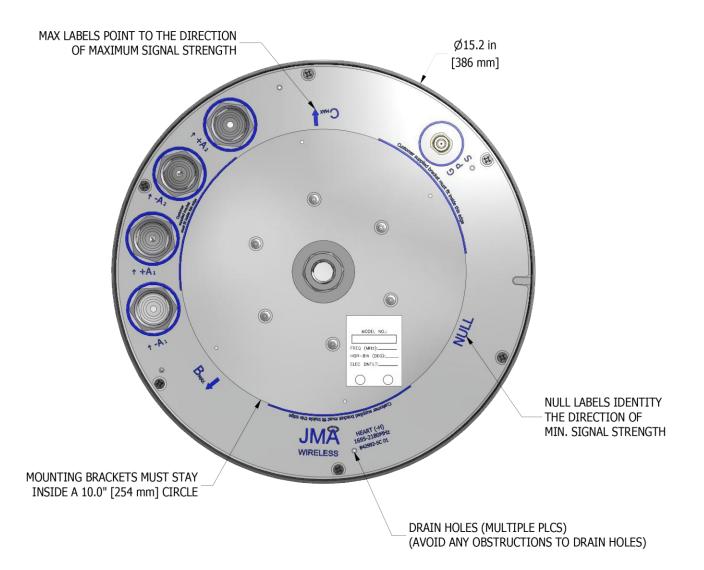




All Specifications are subject to change. Refer to www.jmawireless.com for the most current information CYL-QAP-2_v1



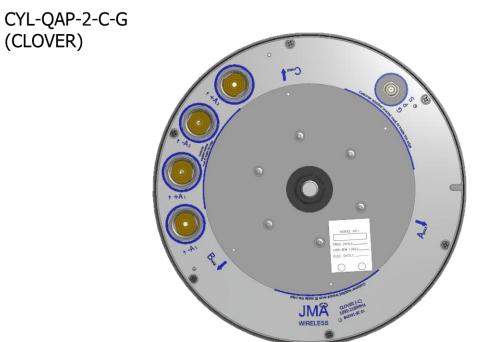
* SHOWN BELOW IS THE BOTTOM VIEW OF THE OMNI CLOVER OPTION. CONNECTOR LOCATION & COUNT MAY VARY DEPENDING ON ANTENNA OPTION. REFER TO PAGE 2 FOR MORE DETAILS.





CYL-QAP-2-C (CLOVER)

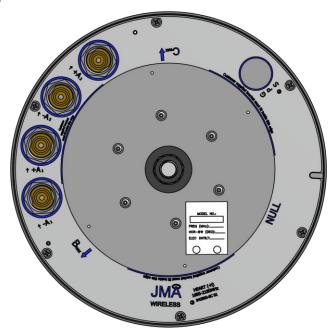




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Mechanical Outline Drawing CYL-QAP-2-H (HEART)

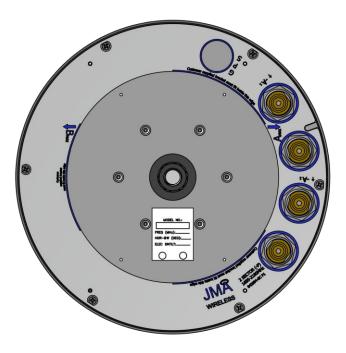


CYL-QAP-2-H-G (HEART)

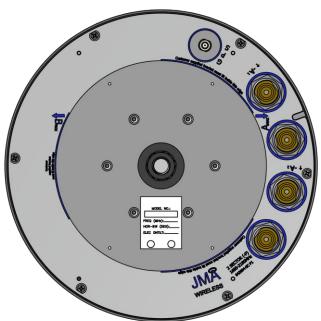
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CYL-QAP-2-P (PEANUT)



CYL-QAP-2-P-G (PEANUT)

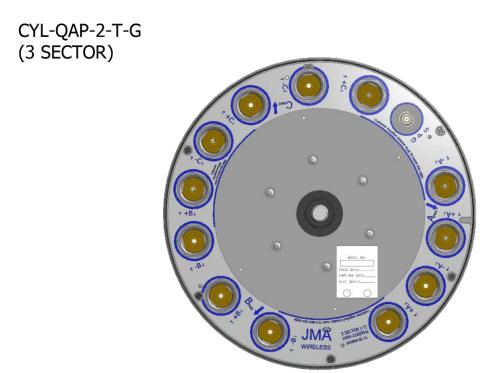


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CYL-QAP-2-T (3 SECTOR)

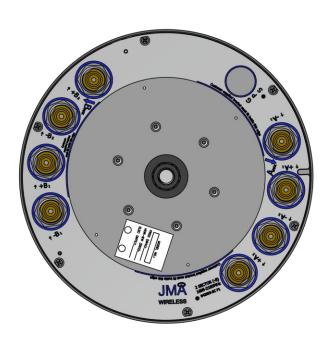




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CYL-QAP-2-B (2 SECTOR)



CYL-QAP-2-B-G (2 SECTOR)



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