

# CWT070X12Fxyz1

DUAL BAND | DIPLEXED | 3-SECTOR, CLOVER-SHAPE | CANISTER ANTENNA | X-POL | FIXED TILT | 1219 MM (48.0 IN)

## Features

- Diplexed, 3-Sector, Clover-Shape configuration with 6 connectors
- Ideal for Small Cell / DAS applications
- Available with 4.3/10 or 7/16-DIN connectors
- Four unique mounting options
- Available in gray and brown



## Connector Description

The diplexed antenna has 6 connectors located at the bottom.

Low Band / High Band      696-960 / 1695-2180 MHz      (6x) 4.3/10 or 7/16-DIN Female

Electrical Characteristics	Low Band		High Band		
	696-960 MHz		1695-2180 MHz		
Frequency Bands (MHz)	696-806	806-960	1695-1880	1850-1990	1920-2180
Polarization	±45°		±45°		
Horizontal Beamwidth	70°	65°	70°	68°	65°
Vertical Beamwidth	20°	15°	7.5°	7°	6.5°
Gain	11.5 dBi	12.5 dBi	15.5 dBi	16.0 dBi	16.5 dBi
Electrical Downtilt (°)	(x) 0, 5		(y) 0, 6		
Impedance	50Ω		50Ω		
VSWR	≤ 1.5:1		≤ 1.5:1		
Upper Sidelobe Suppression	> 15 dB		> 15 dB		
Front-to-Back Ratio	> 25 dB		> 25 dB		
Isolation Between Ports	20 dB		25 dB		
IM3 (2x20W carrier)	< -153 dBc		< -153 dBc		
Input Power	(3x) 500 W		(3x) 300 W		
Diplexed	Yes (Internal Diplexer)				
Number of Sectors, Sector Spacing and/or Pattern Shape	3 Sectors, 120° Spacing, Clover-Shape				
Lightning Protection	Direct Ground				

## Mechanical Characteristics

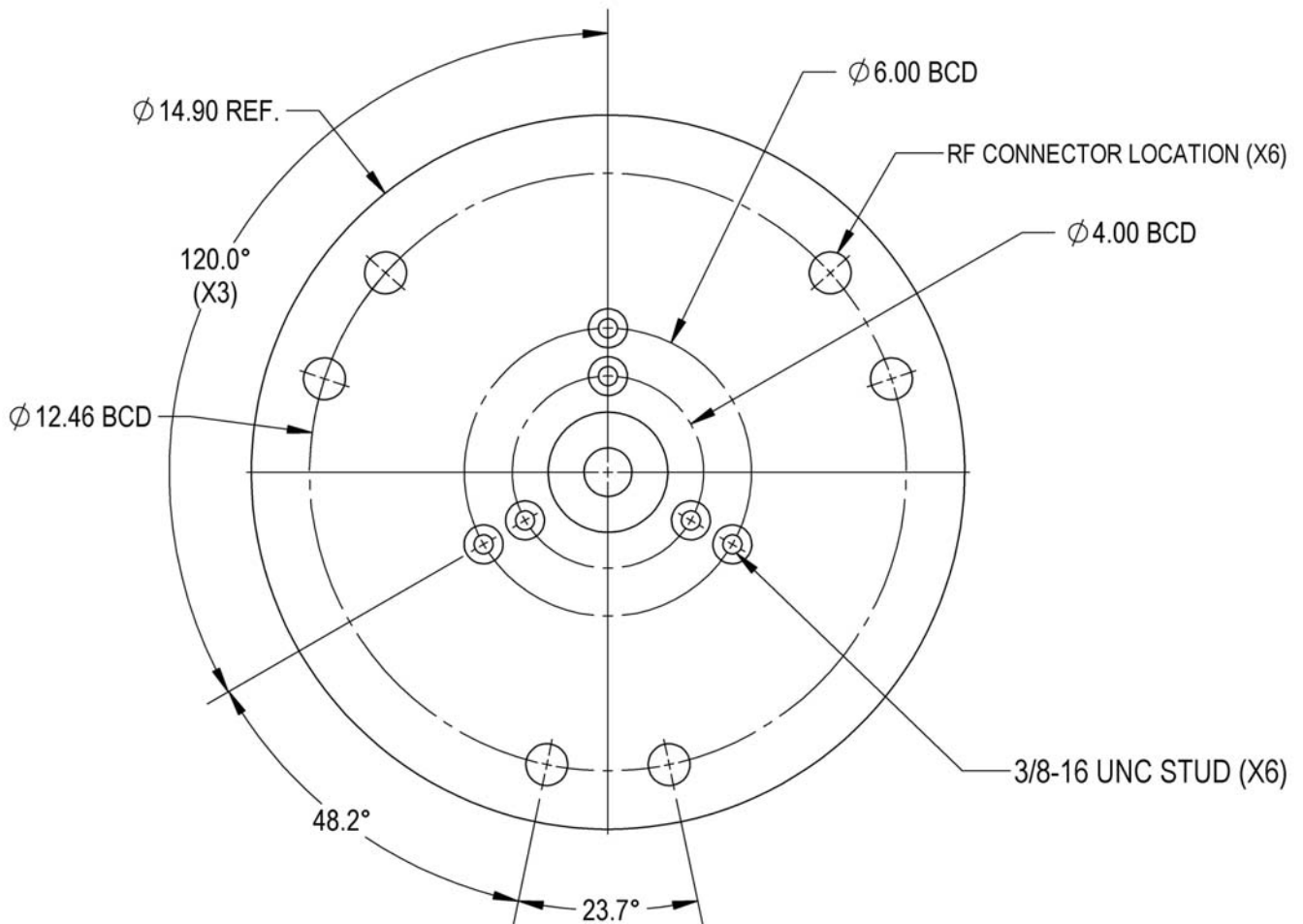
Antenna Dimensions (Height x Diameter)	1219 x 371 mm	48.0 x 14.6 in
Weight without Mounting Bracket Kit	19.9 kg	43.9 lbs
Antenna Volume	0.13 m <sup>3</sup>	4.7 ft <sup>3</sup>
Survival Wind Speed	200 km/hr	125 mph
Wind Area	0.46 m <sup>2</sup>	4.9 ft <sup>2</sup>
Wind Load (160 km/hr or 100 mph)	383 N	86 lbf

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Bottom View - Connector Diagram

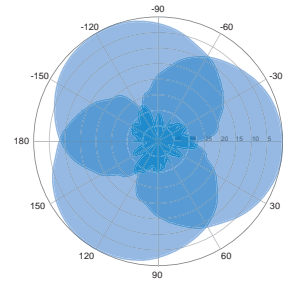
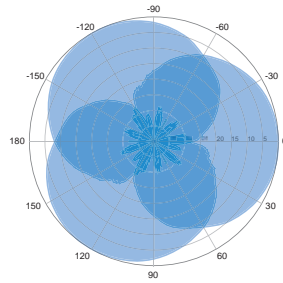


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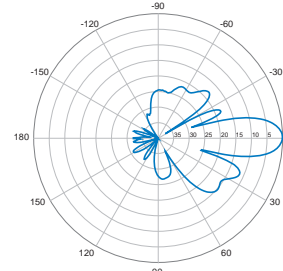
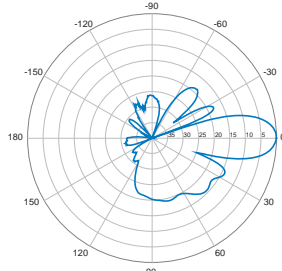
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696-960 MHz



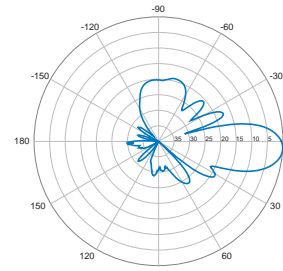
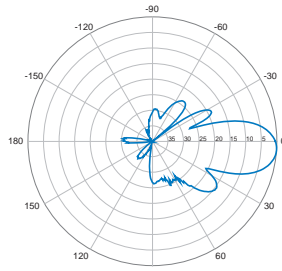
Horizontal | 750 MHz

Horizontal | 850 MHz



0° | Vertical | 750 MHz

0° | Vertical | 850 MHz



5° | Vertical | 750 MHz

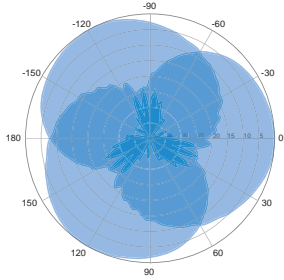
5° | Vertical | 850 MHz

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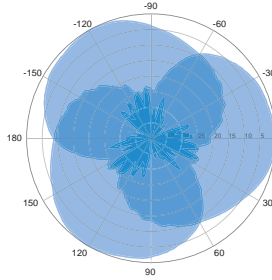
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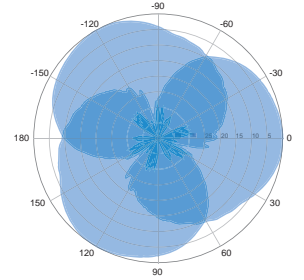
**1695-2700 MHz**



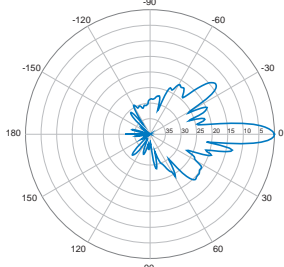
Horizontal | 1800 MHz



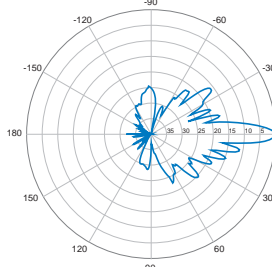
Horizontal | 1900 MHz



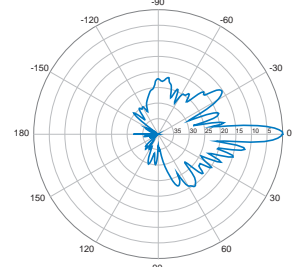
Horizontal | 2100 MHz



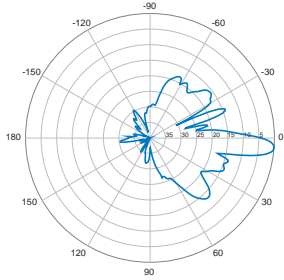
0° | Vertical | 1800 MHz



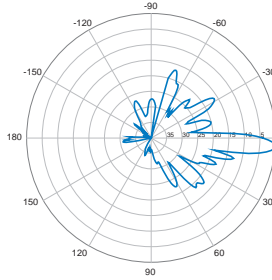
0° | Vertical | 1900 MHz



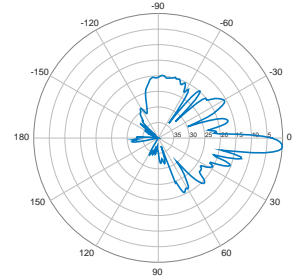
0° | Vertical | 2100 MHz



6° | Vertical | 1800 MHz



6° | Vertical | 1900 MHz



6° | Vertical | 2100 MHz

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### Ordering Options

When ordering, select the Paint Color, Degree of Electrical Downtilt (**xy**) for the Low and High Bands and the Connector Type (**z**).

Paint Color	Electrical Downtilt Degree		Connector Type ( <b>z</b> )	
	Low Band ( <b>x</b> )	High Band ( <b>y</b> )	4.3/10 Female	7/16-DIN Female
Painted Gray	0°	0°	CWT070X12F <b>00s</b> 1	CWT070X12F <b>00D</b> 1
	0°	6°	CWT070X12F <b>06s</b> 1	CWT070X12F <b>06D</b> 1
	5°	0°	CWT070X12F <b>50s</b> 1	CWT070X12F <b>50D</b> 1
	5°	6°	CWT070X12F <b>56s</b> 1	CWT070X12F <b>56D</b> 1
Painted Brown	0°	0°	CWT070X12F <b>00s1BR</b>	CWT070X12F <b>00D1BR</b>
	0°	6°	CWT070X12F <b>06s1BR</b>	CWT070X12F <b>06D1BR</b>
	5°	0°	CWT070X12F <b>50s1BR</b>	CWT070X12F <b>50D1BR</b>
	5°	6°	CWT070X12F <b>56s1BR</b>	CWT070X12F <b>56D1BR</b>

### Mounting Kits

This antenna can be mounted using any of the following mounting kits. Mounting kits must be ordered separately.

Side Mounting Bracket Kit	Top Mounting Bracket Kit	Utility Pole Mounting Bracket Kit	Wide Diameter Pole Top Mounting Bracket Kit
CWT-MKS-SIDE	CWT-MKS-TOP	WB3X-MKS-01	CWT-MKS-BASE-xx
			

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