

65°

2C4U4VX065X12Fwxys5

Features

- Unique high port count panel antenna for 4G/5G small cell applications
- 20 total connectors to service the 696-960, 1695-2700 and 3300-4200 MHz bands
- Ideal for multi-carrier or 4x4 MIMO deployments
- Fixed tilt options



48.0 IN FIXED TILT

	Frequency Range (MHz)	(2x) 696-960	(4x) 1695-2700	(4x) 3300-4200					
	Array	■ R1, ■ R2	■ Y1, ■ Y2, ■ Y3, ■ Y4	■ P1, ■ P2, ■ P3, ■ P4					
	Connector	4 PORTS	8 PORTS	8 PORTS					
3	Polarization	XPOL	XPOL	XPOL					
/ERVIEW	Azimuth Beamwidth (avg)	65°	65°	65°					
VER	Electrical Downtilt	0°	2°, 4°, 6°	2°, 4°, 6°					
PRODUCT ON	Maximum Continuous Power Per Port @ 50° C (122° F)	500 WATTS	300 WATTS	100 WATTS					
	Maximum Total Continuous Power at 50° C (122° F)	5200 WATTS							
PR	Total Connector Count	20 PORTS							
	Connector Type	4.3-10 FEMALE							
	Dimensions	1219 x 344 x 246 mm (48.0 x 13.5 x 9.7)							
	Radome Color Options	GREY							

ELECTRICAL SPECIFICATIONS



Frequency Range		MHz	(2x) 696-960				
Frequency S	Sub-Range	MHz	696-806 806-960				
Polarization			(2x) ±45°				
C	BASTA	dBi	10.1 ± 0.8	10.2 ± 1.1			
Gain	MAX	dBi	10.9	11.3			
Azimuth Bea	amwidth (3 dB)	degrees	85.9° ± 10.9°	78.4° ± 13.5°			
Elevation B	Elevation Beamwidth (3 dB)		35.0° ± 3.9°	29.0° ± 5.3°			
Electrical Downtilt		degrees	(w) 0°				
Impedance		Ohms	50Ω				
VSWR			1.5:1				
	Passive Intermodulation 3rd Order for 2x20 W Carriers		< -153				
Upper Sidelobe Suppression		dB	N/A				
to dotte	Intraband	dB	>	25			
Isolation	Interband	dB	> 28 same band; > 30 different band				



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> 28 same band; > 30 different band

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Interband

dB

ELECTRIC	CAL SPECIFICATION	S		■ Y1 ■ Y2	Y3 Y4			
Frequency Range MHz			(4x) 1695-2700					
Frequency Sub-Range		MHz	1695-1880	1850-1990	1920-2200	2300-2700		
Polarization			(4x) ±45°					
Gain	BASTA	dBi	13.7 ± 0.6	13.9 ± 0.5	13.6 ± 0.7	14.0 ± 0.8		
	MAX	dBi	14.3	14.4	14.3	14.8		
Azimuth Beamwidth (3 dB)		degrees	71.1° ± 8.1°	71.2° ± 7.9°	67.2° ± 8.9°	72.7° ± 14.3°		
Elevation Beamwidth (3 dB)		degrees	18.4° ± 1.4°	17.5° ± 1.2°	16.0° ± 1.6°	13.6° ± 1.4°		
Electrical D	Downtilt	degrees	(x) 2°, 4°, 6°					
Impedance	2	Ohms	50Ω					
VSWR			1.5:1					
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153					
Upper Sidelobe Suppression		dB	N/A					
In a lation	Intraband	dB	> 25					
Isolation								

3700-4200					
16.3 ± 0.7					
17.0					
76.0° ± 12.9°					
7.5° ± 0.7°					
(y) 2°, 4°, 6°					
50Ω					
1.5:1					
N/A					



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MECHANICAL SPECIFICATIONS

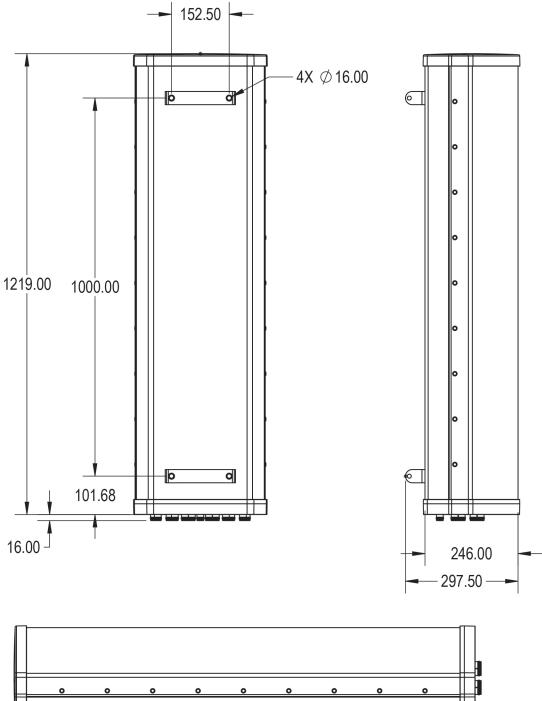
g	Length		mm (in)	1219 (48.0)			
Antenna	Width		mm (in)	344 (13.5)			
₹	Depth		mm (in)	246 (9.7)			
Net W	Net Weight - Antenna Only			10.9 (24)			
Calculation			km/h (mph)	160 (100)			
Windle	oad	Frontal		480 (108)			
		Side	N (lbf)	285 (64)			
Surviva	Survival Wind Speed			241 (150)			
	Туре			4.3-10 Female			
Conne	ector	Quantity		20			
		Position		Bottom			
Radome Color			Grey				
Opera	Operating Temperature		degrees	-40 to +60 C (-40 to +140 F)			
Lightn	ing Protection (Ground	ding Type)		Direct Ground			

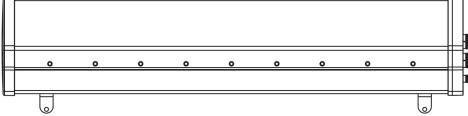


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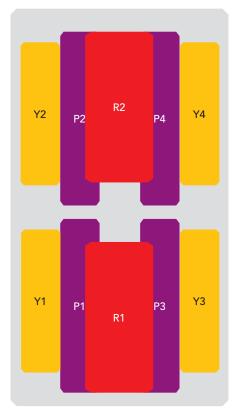
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ARRAY LAYOUT Topology

ARRAI LATOOT Topology							
FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE				
696-960 MHz	■ R1	1-2	(2x) 4.3-10 Female				
696-960 MHz	■ R2	3-4	(2x) 4.3-10 Female				
1695-2700 MHz	■ Y1	5-6	(2x) 4.3-10 Female				
1695-2700 MHz	■ Y2	7-8	(2x) 4.3-10 Female				
1695-2700 MHz	■ Y3	9-10	(2x) 4.3-10 Female				
1695-2700 MHz	■ Y4	11-12	(2x) 4.3-10 Female				
3300-4200 MHz	■ P1	13-14	(2x) 4.3-10 Female				
3300-4200 MHz	■ P2	15-16	(2x) 4.3-10 Female				
3300-4200 MHz	■ P3	17-18	(2x) 4.3-10 Female				
3300-4200 MHz	■ P4	19-20	(2x) 4.3-10 Female				



The illustration is not shown to scale.

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BOTTOM VIEW - LABELING



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MOUNTING KITS Select from the following mounting options when ordering.

MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
MKS09P01	2-POINT MOUNTING BRACKET KIT	50-115 mm (2.0-4.5 in)	2.9 kg (6 lbs)
MKS09T01	2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT	50-115 mm (2.0-4.5 in)	4.5 kg (10 lbs)



The antennas shown in the mounting kit illustrations above are generic representations and may not resemble the antenna described within this data sheet.

INSTALLATION Please read all installation notes before installing this product.



Always attach the antenna using all mounting points.

Do not install the antenna with the connectors facing upwards.



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HOW TO READ THE MODEL NUMBER Each letter and number has meaning.

	R OF BAN		PATTERN TYPE	AZIMUTH BMWDTH	POLARIZA- TION	LENGTH	TILT TYPE	TILT OPTIONS	CONNECTOR TYPE	VARIATION	ORDERING OPTION
2C	4U	4V	Х	065	X	12	F	wxy	S	5	-P -T
(2x) 696- 960	(4x) 1695- 2700	(4x) 3300- 4200	Standard Panel Antenna	65°	XPOL	1.2 meters	Fixed Tilt	These letters are placeholders for fixed tilt options. Refer to Electrical Specifications for available tilt options.	4.3-10 Connector	5th generation mechanical package	To order the antenna and mounting kit together as one line item, add a -P for the 2-POINT MOUNTING BRACKET KIT (MKS09P01) or a -T for the 2-POINT, SCISSOR TILT, MOUNTING & DOWNTILT BRACKET KIT (MKS09T01) to the end of the model number. If -P or -T is not added, the bracket kit can be added as a separate line item, or the antenna shipped without a bracket. Refer to the ordering options on the following page for further detail.



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ORDERING OPTIONS Solect from the following

SELECT MOUNTING KIT	SELECT DEGREE	OF ELECTRICAL DOV BAND	ORDER	
	696-960 MHz	1695-2700 MHz	3300-4200 MHz	MODEL NUMBER
ANTENNA ONLY -	0°	2°	2°	2C4U4VX065X12F022s5
NO MOUNTING KIT	0°	2°	4°	2C4U4VX065X12F024s5
	0°	2°	6°	2C4U4VX065X12F026s5
	0°	4°	2°	2C4U4VX065X12F042s5
	0°	4°	4°	2C4U4VX065X12F044s5
	0°	4°	6°	2C4U4VX065X12F046s5
	0°	6°	2°	2C4U4VX065X12F062s5
	0°	6°	4°	2C4U4VX065X12F064s5
	0°	6°	6°	2C4U4VX065X12F066s5
ANTENNA WITH MKS09P01	0°	2°	2°	2C4U4VX065X12F022s5-P
MOUNTING KIT	0°	2°	4°	2C4U4VX065X12F024s5-P
2-Point Mounting Bracket Kit	0°	2°	6°	2C4U4VX065X12F026s5-P
	0°	4°	2°	2C4U4VX065X12F042s5-P
	0°	4°	4°	2C4U4VX065X12F044s5-P
	0°	4°	6°	2C4U4VX065X12F046s5-P
	0°	6°	2°	2C4U4VX065X12F062s5-P
	0°	6°	4°	2C4U4VX065X12F064s5-P
	0°	6°	6°	2C4U4VX065X12F066s5-P
ANTENNA WITH MKS09T01	0°	2°	2°	2C4U4VX065X12F022s5-T
MOUNTING KIT	0°	2°	4°	2C4U4VX065X12F024s5-T
2-Point, Scissor Tilt, Mounting & Down- ilt Bracket Kit	0°	2°	6°	2C4U4VX065X12F026s5-T
	0°	4°	2°	2C4U4VX065X12F042s5-T
	0°	4°	4°	2C4U4VX065X12F044s5-T
	0°	4°	6°	2C4U4VX065X12F046s5-T
	0°	6°	2°	2C4U4VX065X12F062s5-T
	0°	6°	4°	2C4U4VX065X12F064s5-T
	0°	6°	6°	2C4U4VX065X12F066s5-T

20-Port Panel Antenna

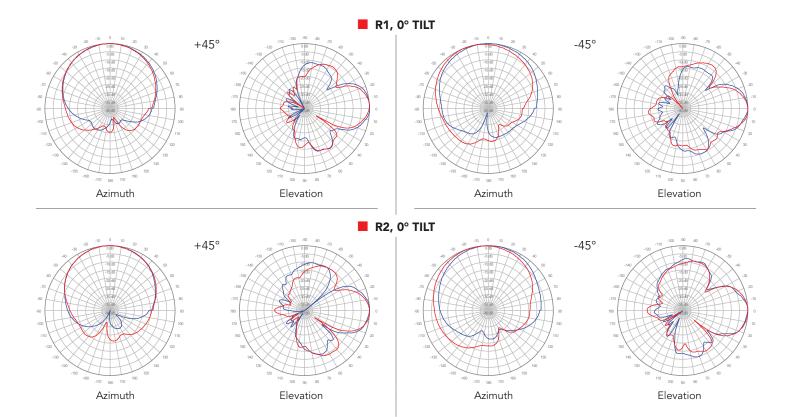
(2x) 696-960 | (4x) 1695-2700 | (4x) 3300-4200 MHz

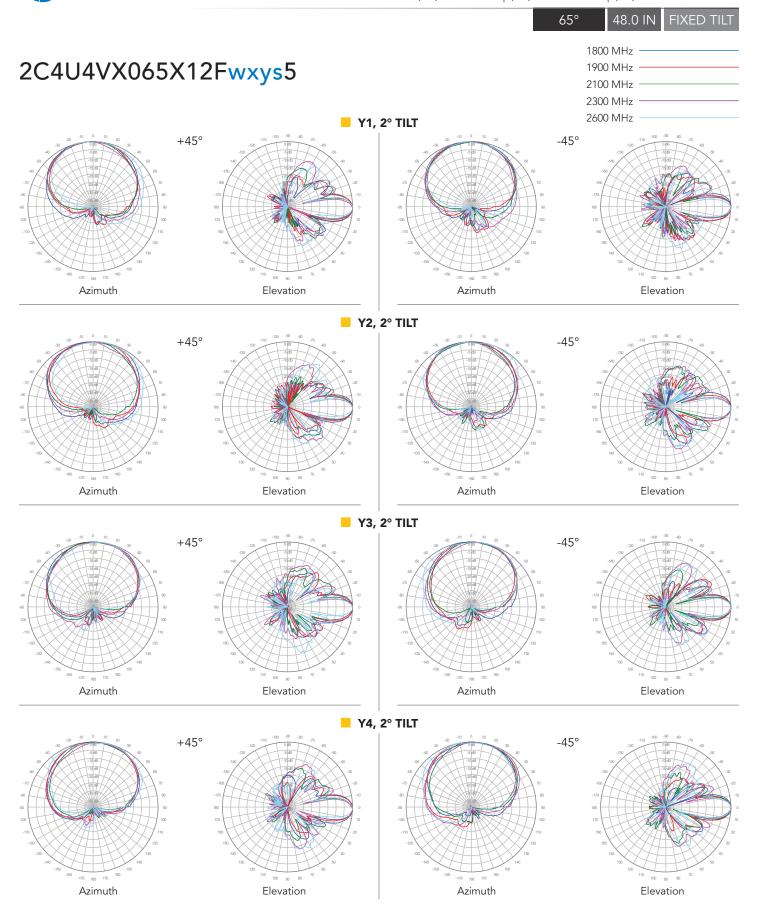
750 MHz

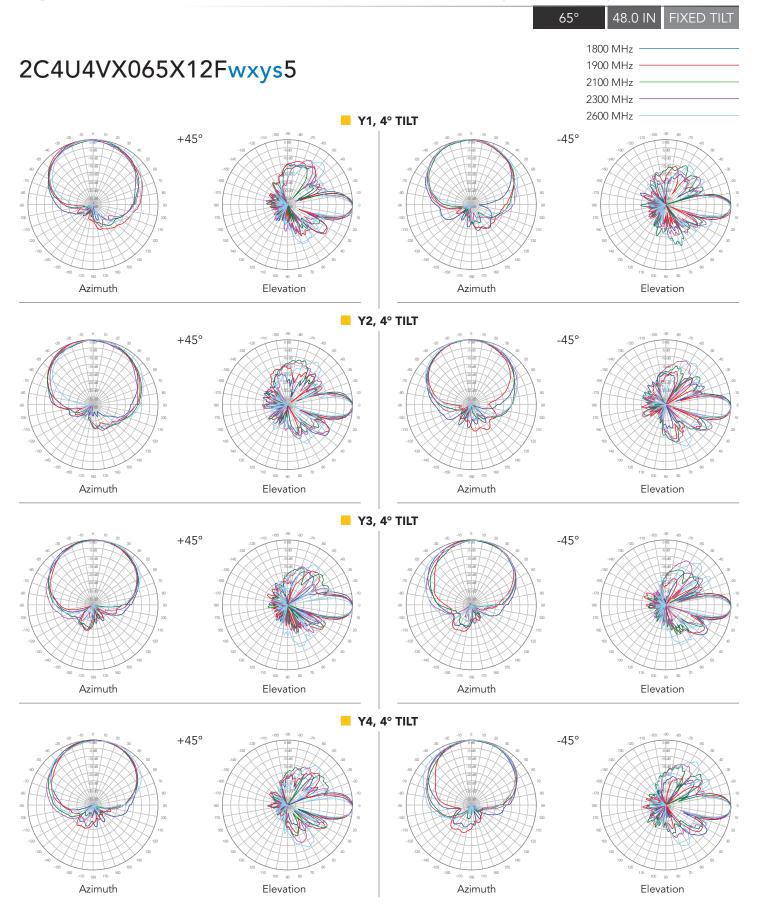
850 MHz -

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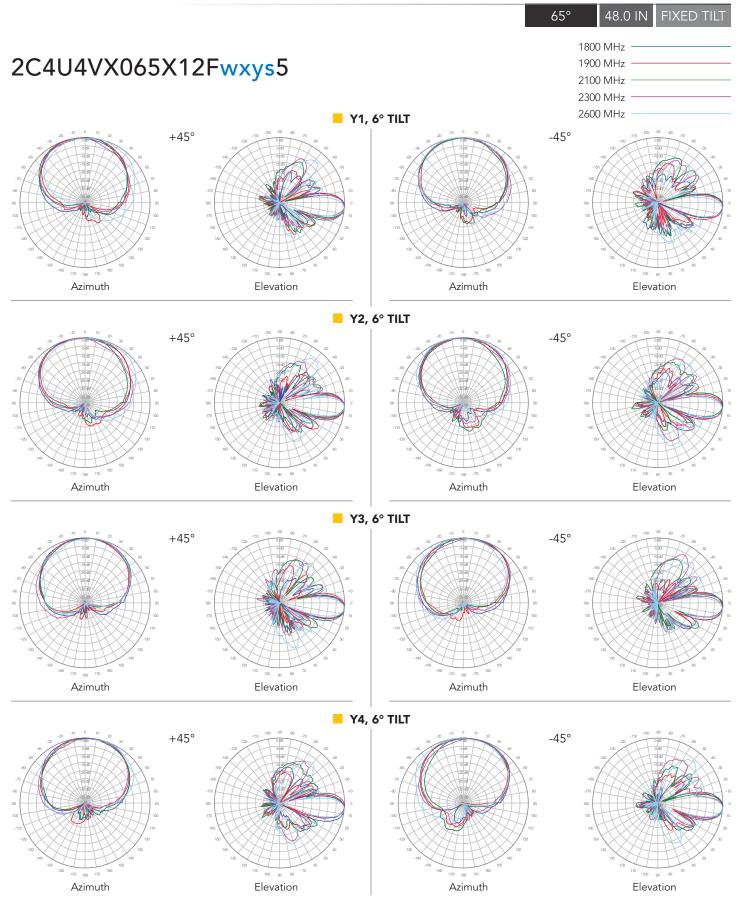
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3600 MHz

4000 MHz

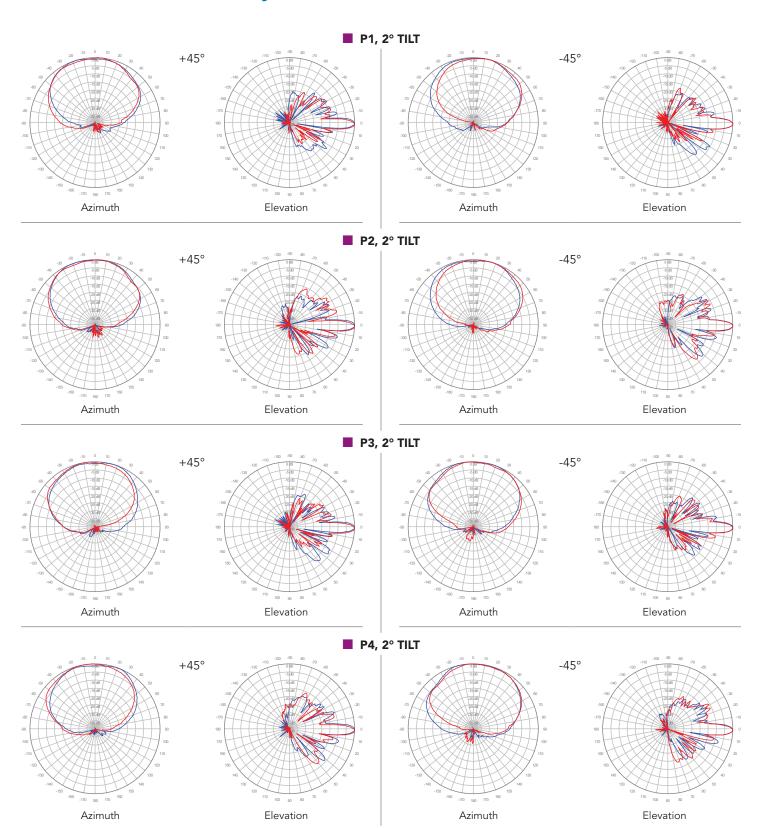


(2x) 696-960 | (4x) 1695-2700 | (4x) 3300-4200 MHz

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3600 MHz

4000 MHz

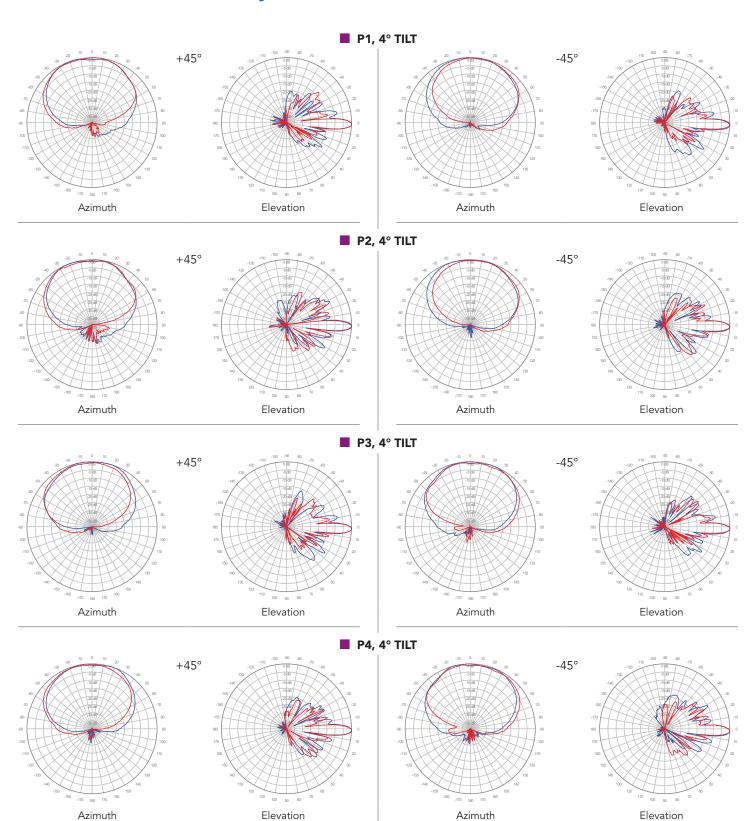


(2x) 696-960 | (4x) 1695-2700 | (4x) 3300-4200 MHz

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3600 MHz

4000 MHz



(2x) 696-960 | (4x) 1695-2700 | (4x) 3300-4200 MHz

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