



Ka VSAT antenna

Item No.	VSAT E74		VSAT E97		VSAT E120	
Reflector Dish						
Type	Elliptical		Elliptical		Elliptical	
Offset Angle	18.6°		18.44°		18.29°	
Physical Size Short Axis	75 cm		97 cm		118.4 cm	
Physical Size Long Axis	77.3 cm		99.8 cm		122.1 cm	
Aperture Diameter	74.0 cm		95.8 cm		117.2 cm	
F/D Ratio	0.75		0.75		0.75	
Focus Length	555 mm		710 mm		877.5 mm	
Antenna Specification						
	TX	RX	TX	RX	TX	RX
Operation Frequency	29 ~ 31 GHz	19.2 ~ 21.2 GHz	29 ~ 31 GHz	19.2 ~ 21.2 GHz	29 ~ 31 GHz	19.2 ~ 21.2 GHz
Efficiency	70% Min.	70% Min.	70% Min.	70% Min.	70% Min.	70% Min.
Ka-Band Gain	45.3 dBi @ 29.0 GHz	41.2 dBi @ 19.7 GHz	46.9 dBi @ 29 GHz	43.9 dBi @ 19.2 GHz	48.4 dBi @ 29 GHz	45.2 dBi @ 19.2 GHz
3dB Beamwidth	0.9° Max.	1.4° Max.	0.7° Max.	1.1° Max.	0.5° Max.	0.9° Max.
	29-25 log θ dB	θmin < θ ≤ 20°	29-25 log θ dB	θmin < θ ≤ 20°	29-25 log θ dB	θmin < θ ≤ 20°
TX/RX Sidelobe Level	-3.5 dB	20° < θ ≤ 26.3°	-3.5 dB	20° < θ ≤ 26.3°	-3.5 dB	20° < θ ≤ 26.3°
	32-25 log θdB	26.3° < θ ≤ 48°	32-25 log θdB	26.3° < θ ≤ 48°	32-25 log θdB	26.3° < θ ≤ 48°
	-10 dB	48° < θ ≤ 180°	-10 dB	48° < θ ≤ 180°	-10 dB	48° < θ ≤ 180°
Cross Polarization on Axis within 1 dB Beamwidth	30 dB Min	25 dB Min	30 dB Min	25 dB Min	30 dB Min	25 dB Min
Mounting						
Mounting Type	Pole Mount		Pole Mount		Pole Mount	
Adjustment Type	AZ / EL Adjustable		AZ / EL Adjustable		AZ / EL Adjustable	
Material	Galvanized Steel		Galvanized Steel		Galvanized Steel	
Finish	Polyester Coating		Polyester Coating		Polyester Coating	
Color	Cool Grey / Dark Grey		Cool Grey / Dark Grey		Cool Grey / Dark Grey	
Elevation Range	5° ~ 90°		10° ~ 90°		5° ~ 90°	
Azimuth Range	0° ~ 360°		0° ~ 360°		0° ~ 360°	
Pole Diameter Acceptable	φ 60 mm		φ 60 mm		φ 76mm	
Environment						
Operational Winds	55 mph		55 mph		55 mph	
Survival Winds	100 mph		100 mph		100 mph	
Ambient Temperature	-40°C ~ +60°C		-40°C ~ +60°C		-40°C ~ +60°C	
Relative Humidity	0~100%		0~100%		0~100%	

Certified by Anatel and meets FCC requirments



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Ku rev:20190613 / Ka rev: 20180831 / Rev: 201912



The World's Leading Original Equipment and
Design Manufacturer of Communication Antennas



- ★ The antenna product can correspond with branded electronic devices in the market.
(ex. BUC 、intergrated LNB 、Transceiver...etc.)
- ★ Antenna performance may vary by using different electronic devices or feed horn.

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Offset Angle	18.6°		18.44°		18.29°	
Physical Size Short Axis	75 cm		97 cm		118.4 cm	
Physical Size Long Axis	77.3 cm		99.8 cm		122.1 cm	
Aperture Diameter	74.0 cm		95.8 cm		117.2 cm	
F/D Ratio	0.75		0.75		0.75	
Focus Length	555 mm		710 mm		877.5 mm	
Antenna Specification						
	TX	RX	TX	RX	TX	RX
Operation Frequency	13.75 ~ 14.5 GHz	10.7 ~ 12.75 GHz	13.75 ~ 14.5 GHz	10.7 ~ 12.75 GHz	13.75 ~ 14.5 GHz	10.7 ~ 12.75 GHz
Efficiency	70% Min.	70% Min.	70% Min.	70% Min.	70% Min.	70% Min.
Ku-Band Gain	39.2 dBi @ 14 GHz	37.8 dBi @12.75 GHz	40.7 dBi @ 14 GHz	39.1 dBi @12.75 GHz	43.0 dBi @ 14 GHz	42.0 dBi @ 12.75 GHz
3dB Beamwidth	1.6° Max.	1.8° Max.	1.6° Max.	1.8° Max.	1.2° Max.	1.4° Max.
Cross Polarization on Axis within 1 dB Beamwidth	30 dB	25 dB	30 dB	25 dB	30 dB	25 dB
Feed Interface	WR75	WR75	WR75	WR75	WR75	WR75
Mounting						
Mounting Type	Pole Mount		Pole Mount		Pole Mount	
Adjustment Type	AZ / EL Adjustable		AZ / EL Adjustable		AZ / EL Adjustable	
Material	Galvanized Steel		Galvanized Steel		Galvanized Steel	
Finish	Polyester Coating		Polyester Coating		Polyester Coating	
Color	Light Grey / Dark Grey		Light Grey / Dark Grey		Light Grey / Dark Grey	
Elevation Range	10° ~ 90°		10° ~ 90°		5° ~ 90°	
Azimuth Range	0° ~ 360°		0° ~ 360°		0° ~ 360°	
Pole Diameter Acceptable	φ 60 mm		φ 60 mm		φ 76 mm	
Environment						
Operational Winds	55 mph		55 mph		55 mph	
Survival Winds	100 mph		100 mph		100 mph	
Ambient Temperature	-40°C ~ +60°C		-40°C ~ +60°C		-40°C ~ +60°C	
Relative Humidity	0 ~ 100%		0 ~ 100%		0 ~ 100%	



- ★ Linked articulated design for quick installation.
- ★ Triangle base provides maximum supporting.
- ★ Suitable for various sizes antenna (74~120cm.)
- ★ Galvanized steel with coating for better weather resistance.
- ★ Light weight and compact design easy for storage and transportation.



TriMast / Heavy Duty mount

Item No.	B6008502	B7609901	A6006002	A7606001
Mechanical				
Mounting Type	Wall, Ground Mount	Wall, Ground Mount	Wall, Ground Mount	Wall, Ground Mount
Material	Galvanized Steel	Galvanized Steel	Galvanized Steel	Galvanized Steel
Finish	Polyester Powder Coating	Polyester Powder Coating	Polyester Powder Coating	Polyester Powder Coating
Color	Cool Gray / Dark Gray	Cool Gray / Dark Gray	Cool Gray / Dark Gray	Cool Gray / Dark Gray
Pole Diameter Acceptable	φ 60 mm	φ 76 mm	φ 60 mm	φ 76 mm
Suitable Reflector Size / DTH	90 ~ 120 cm	90 ~ 150 cm	90 ~ 120 cm	90 ~ 150 cm
Suitable Reflector Size / VSAT	74 ~ 100 cm	74 ~ 120 cm	74 ~ 100 cm	74 ~ 120 cm
Installtion Area Required	100*120 cm²	120*120 cm²	110 cm²	120*120 cm²
Environment				
Ambient Temperature	- 40°C ~ +60°C	- 40°C ~ +60°C	- 40°C ~ +60°C	- 40°C ~ +60°C
Relative Humidity	0% ~ 100%	0% ~ 100%	0% ~ 100%	0% ~ 100%
Packing				
Packing method	2 in 1	2 in 1	Single pack	2 in 1
Carton Dimension	980*240*118 mm	1090*385*105 mm	810*185*175 mm	1090*385*105 mm
Net Weight	4.6 kg / Sets	6.233 kg / Sets	6.3 Kgs / 8 Kgs / Sets	6.233 kg / Sets
Container loading	3360 Sets / 40'CTNR	1080 Sets / 20'CTNR	1936 Sets / 40'CTNR	1080 Sets / 20'CTNR



Ku Horn



Ka Horn



OMT 91601001

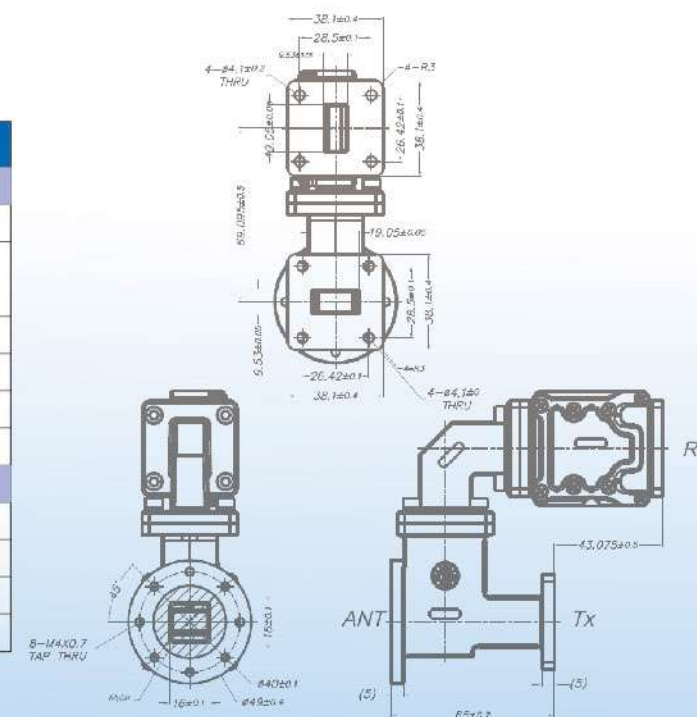


Ku Band Linear / Ka Band Circular Polarity Feed Horn

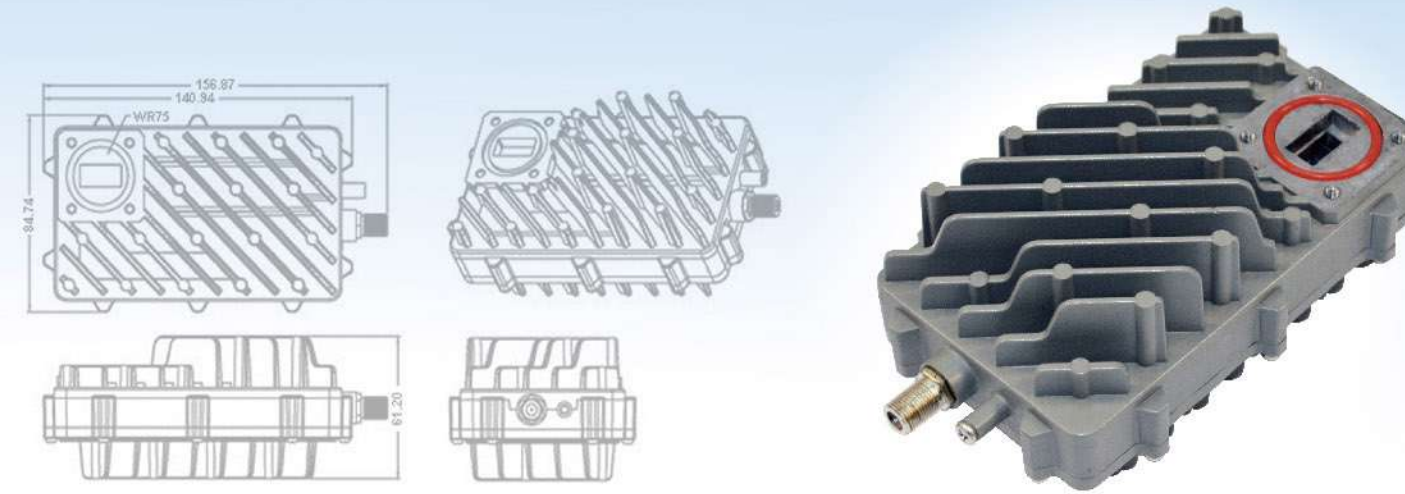
Item No.	91402401	91401602	91401601
Ku Band Linear / Ka Band Circular Polarity Feed Horn			
Tx band Frequency	13.75 ~ 14.5 GHz	27 ~ 31 GHz	27 ~ 31 GHz
Rx band Frequency	10.95 ~ 12.75 GHz	17.7 ~ 21.2 GHz	17.7 ~ 21.2 GHz
f/D range	0.7 ~ 0.8	0.7 ~ 0.8	0.7 ~ 0.8
Polarity	Orthogonal Linear Polarity	Orthogonal CP	Orthogonal CP
Rotation	360° Continuous	360° Continuous	360° Continuous
Tx band Return Loss	20 dB	20 dB	20 dB
Rx band Return Loss	17 dB	17 dB	20 dB
Isolation (Tx band)	80 dB		
Isolation (Rx band)	40 dB		
Insertion Loss (Tx band)	0.3 dB		
Insertion Loss (Rx band)	0.4 dB		
Tx band Interface	WR75		
Rx band Interface	WR75		

OMT Specification Sheet

Item No.	91601001
Electrical	
Frequency	Rx 10.70 ~ 12.75 GHz Tx 13.75 ~ 14.50 GHz
VSWR	1.25 max (19.1 dB) (OMT antenna port is matched to a feed horn with diameter of 18 ~ 19 mm)
Insertion loss	Tx to ANT 0.2 dB max ANT to Rx 0.4 dB max
Transmit to Receive Isolation	85 dB min.
Receive to Transmit Isolation	40 dB min.
X-pol. isolation	30 dB min.
Environment	
Temperature range	- 30°C ~ +70°C
Pressurization	sealed to 5 psi
Finish	Clear or Powder coating with white RAL9002
Weight	390 g max



Electronic products



2W / 3W Ku-Band BUC Specification Sheet

Item No.	91612001	91613001
2W / 3W Ku-Band BUC Specification Sheet		
1	Input Frequency Range	14 ~ 14.5 GHz
2	Output Frequency Range	950 ~ 1450 MHz
3	LO Frequency	13.05 GHz
4	Noise Figure	15 (max) dB
5	10MHz External Reference Frequency sensitivity	-15 ~ +5 dBm
6	Output Power (P1dB)	33.5 dBm
7	IF Input VSWR	2.0 : 1
8	In Band Spurious(Power +30dBm Output)	-50 dBc
9	Out of Band Spurious(Power +30dBm Output)	-50 dBc
10	RF Output VSWR	2.0 : 1
11	Small Signal Gain	50 ~ 58 dB
12	12 Gain Flatness	
	(a) over any 2MHz Band (pk-pk)	0.5 dB
	(b) over any 125MHz Band (pk-pk)	2.5 dB
	(c) over any 500MHz Band (pk-pk)	4 dB
13	Gain Variation	
	(a) Gain Variation overTemp (any 40 °C)	3 dB
	(b) Gain Variation overTemp (any 20 °C)	1.5 dB
14	SSB Phase Noise	
	(a) @100Hz Offset	-55 dBc / Hz
	(b) @1KHz Offset	-70 dBc / Hz
	(c) @10KHz Offset	-80 dBc / Hz
	(d) @100KHz Offset	-90 dBc / Hz
	(e) @1MHz Offset	-100 dBc / Hz
15	RF Shut off	-70 dBm
16	Power Draw	23 Max.
17	DC Voltage Range	15 ~ 30 V
18	Inrush Current Peak	2 Amp @ <40 msec
19	Electrical Stability	Unconditional
20	Weight	800 g
21	Operating Temperature	- 40 ~ +55 °C

iLNB



BUC+iLNB



iLNB Specification

Item No.	91622200-D	91622200-P
iLNB Specification		
DRO iLNB / PLL iLNB		
Low Band I/P Frequency Range	10.7 ~ 11.7 GHz	10.7 ~ 11.7 GHz
O/P Frequency Range	950 ~ 1950 MHz	950 ~ 1950 MHz
LO Frequency	9.75 GHz	9.75 GHz
High Band I/P Frequency Range	11.7 ~ 12.75 GHz	11.7 ~ 12.75 GHz
O/P Frequency Range	1100 ~ 2150 MHz	1100 ~ 2150 MHz
LO Frequency	10.6 GHz	10.6 GHz
Noise Figure	≤1±0.2 dB	≤1±0.2 dB
LO Initial Accuracy	±1.0 MHz	±20 KHz
LO Temperature Drift	±1.5 MHz	±50 KHz
LO Phase Noise @10K Hz	-90 dBc / Hz	-80 dBc / Hz
Conversion Gain	52 ~ 70 dB	52 ~ 70 dB
Gain Variation	≤5±2 dB	≤5±2 dB
OMT Transmit to Receive Isolation	35 dB	35 dB
OMT Cross Port Isolation	35 dB	35 dB
O/P VSWR	2.5 : 1	2.5 : 1
22K Spurious	-50 dBc	
Low/high band switch threshold voltage		14 ~ 15 V
DC Current	130 mA	130 mA
Working Temperature		- 40 ~ +70 °C

