

PRODUCT SPECIFICATION

Brand	: NatVin
Part Number	: YNX-45-007-18dbi
Product Description	: High-Gain Antenna Designed to Improve Wireless Signal Reception and Transmission In Compatible Communication Systems. with a Specified Gain of 18 dBi
Uni Link's Part Number	: YNX-5G-202-018-111
Issue Date	: 2020-06-12
Note	: 698-960/1710-2690Mhz/3300-3600/4800-5000Mhz SMA-J ROHS N-K ROHS



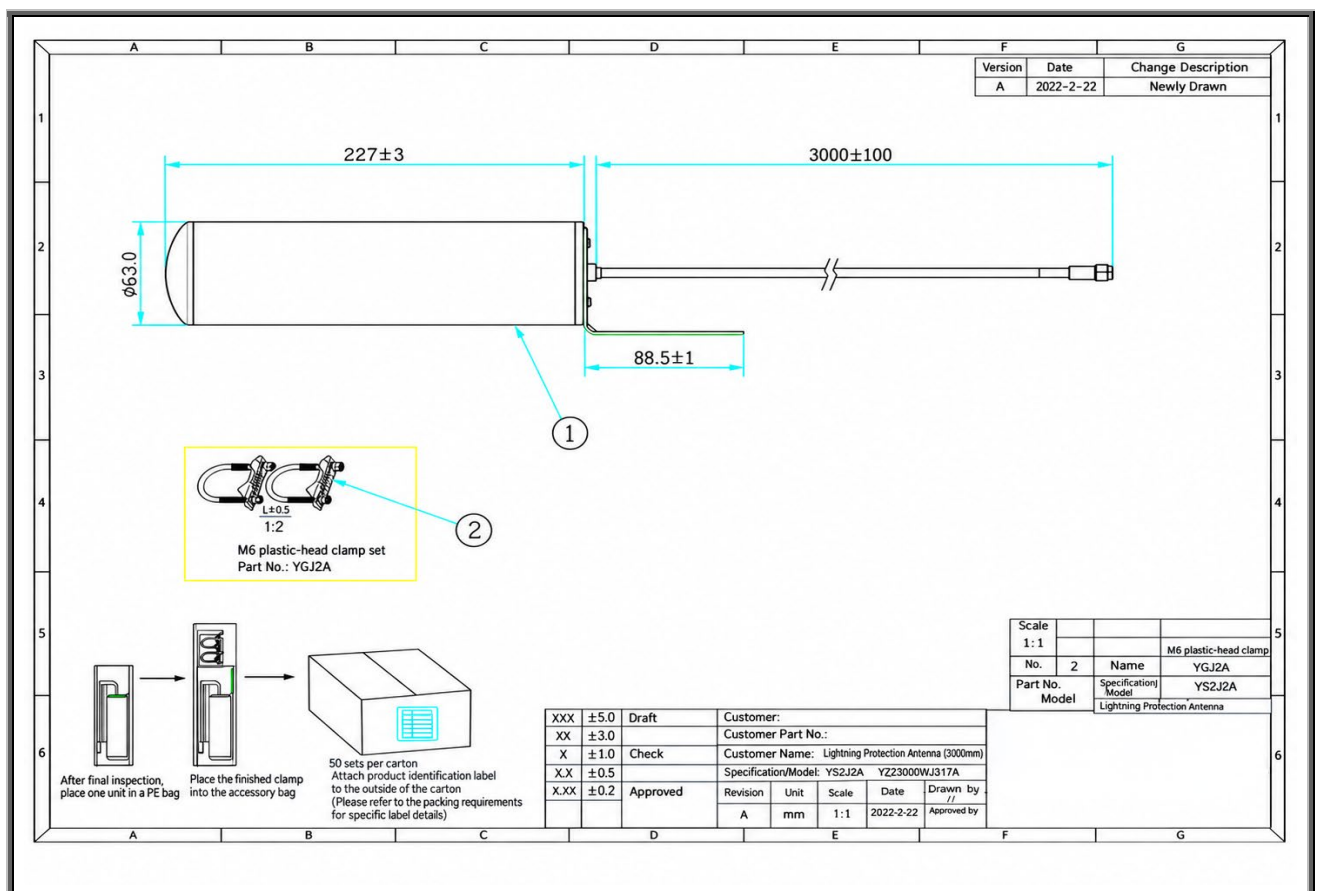
1. PRODUCT TECHNICAL SPECIFICATION

Electrical Specifications	
Frequency Range (MHz)	698~960/1710~2690/3300-3600/4800-5000
Input Impedence (Ω)	50
Voltage Standing Wave Ratio V.S.W.R	≤ 2.0
Gain (dBi)	18
Polarization Type	Horizontal Polarization
Radiation Direction	Omnidirectional
Max Input Power (w)	50
Mechanical Specifications	
Antenna Size (mm)	$\phi 63 \times 230$
Antenna Cable Length	10m
IP65 compliance	YES
Mounting	L- Bracket Installation
Operating Temperature	-20°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Connect Type	SMA
Lightning protection	DC grounding
Wind resistance Speed	60m/s
Pole Diameter	$\phi 25 - \phi 40$ mm
Weight (g)	325

2. PRODUCT PICTURE



3. PRODUCT SPECIFICATION CHART



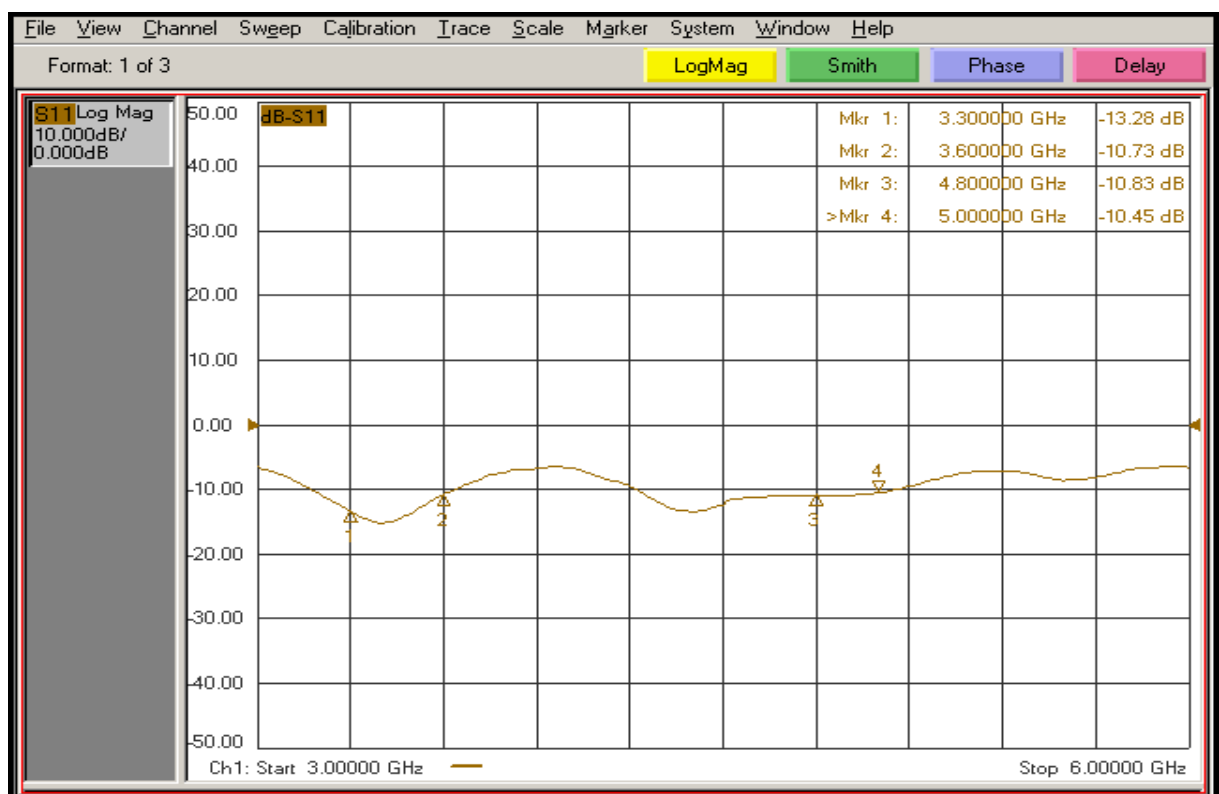
4. MECHANICAL CHARACTERISTICS

	Test Method	Acceptance Criteria
1. BENDING TEST	Load 120g on the line end of the joint 30CM . Test after the joint is fixed. The angle of the pendulum is 60 degrees to the left and right, and the test is performed after 1000 times.	No damage to electrical phenomena performance after 1000 times
2. STRENG TEST	15 lbs of a static load applied to the bottom of line end for one minute.	No damage to mechanical and electrical performance
3. PULLING FORCE TEST	Use the dynamometer connector and the line to conduct the tensile test	The connector and cable must withstand a pulling force of 7 kgf without any damage or degradation in electrical performance.
4. VIBRATION TEST	Apply vibration at an amplitude of 1.10 mm and a frequency of 33.30 Hz. Conduct the vibration test for 120 minutes along the X-axis, 120 minutes along the Y-axis, and 240 minutes along the Z-axis.	No damage to the product or degradation in electrical performance shall occur after the vibration test.

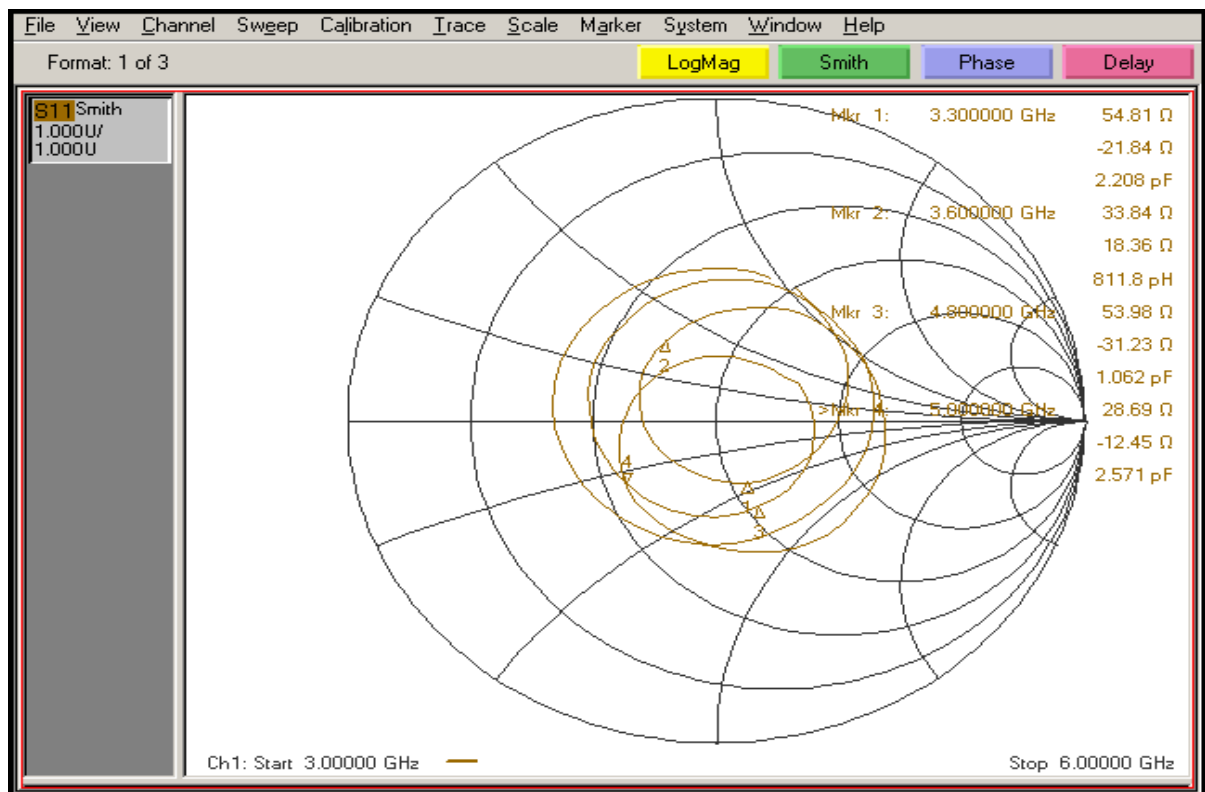
5. DURABILITY TEST

1. SALT SPRAY TEST	Salt Spray Test in Accordance With : GB1266-86 Distilled Water : Single distillation. pH Value : PH6.5~7 Spray Rate : 1.4me80cm ² /h Compressed Air Pressure : 1Kgf/ cm ² Relative Humidity During Testing : 98° Test Temperature : 45°~47° Pressure Temperature : 35° Test Duration : 96hr	All characteristic range is 30% of the initial value
2. HEAT TEST	Expose the product to a temperature of $85 \pm 2^{\circ}\text{C}$ for 96 hours. Then, allow it to return to normal ambient conditions for 30 minutes before conducting the test.	
3. HUMIDITY TEST	Expose the product to a temperature of $40 \pm 2^{\circ}\text{C}$ and a relative humidity of 90–95% RH for 96 hours. Then, allow the product to remain under normal ambient conditions for 30 minutes before conducting the test.	
4. COLD TEST	Expose the product to a temperature of $-40 \pm 2^{\circ}\text{C}$ for 96 hours. Then, allow the product to remain under normal ambient conditions for 30 minutes before conducting the test.	

1. Return Loss



2. Smith Chart



3. Voltage Standing Wave Ratio (VSWR)

