

AEARBD040038-S1621



40.5 x 38.0 x 12.3 mm RoHS/RoHS II Compliant MSL = N/A

Features

- Iridium 1616 1626.5 MHz
- Low VSWR of 1.5
- RHCP polarization
- Easy to install
- Magnetic mounting

Applications

- Iridium applications
- IoT
- Handheld devices
- Satellite telephony
- Tracking
- Fleet and asset monitoring

Electrical Specifications

Parameters	Min.	Тур.	Max.	Units	Note
Frequency Range		1616 ~ 1626.5		MHz	
Center Frequency		1621.25 ± 5.25		MHz	
Bandwidth	15			MHz	
VSWR			1.5		@ CF
Polarization	RHCP				Right Hand Circular Polarization
Impedance		50		Ω	
Gain			0.46	dBi	@ 1621 MHZ
Cable Length and Connector		RG174/ 1.2M/ SMA			

Environmental Characteristics

Parameters	Description
Termination	Ag (Pb free)
Operating Temperature	-30°C to +80°C
Storage Temperature	-40°C to +105°C
Feed Pin Temperature	+290°C for 3 sec
Relative Humidity	40 ~ 95 %



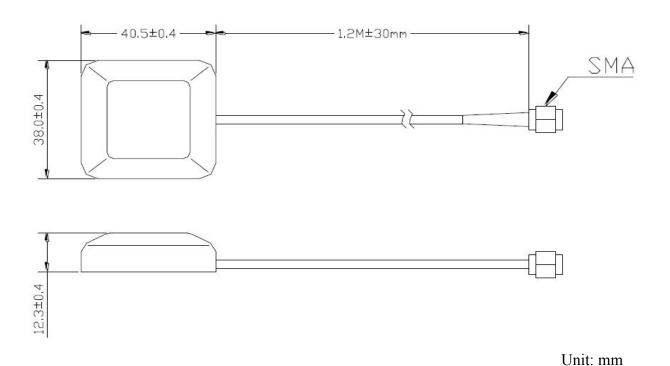


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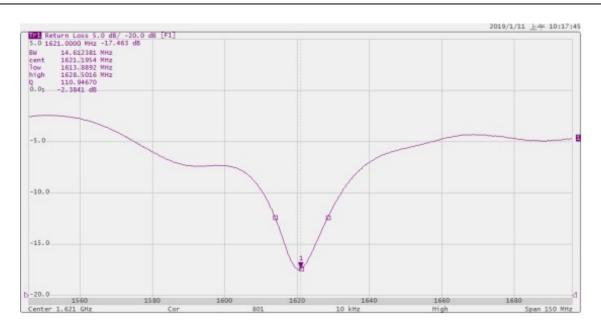


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Dimensions



Return Loss





5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

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ABRACON IS ISO9001-2015 CERTIFIED

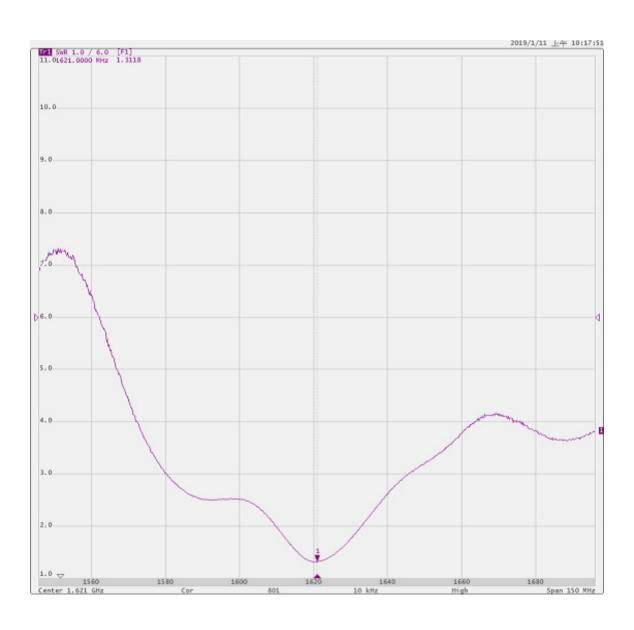


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SWR





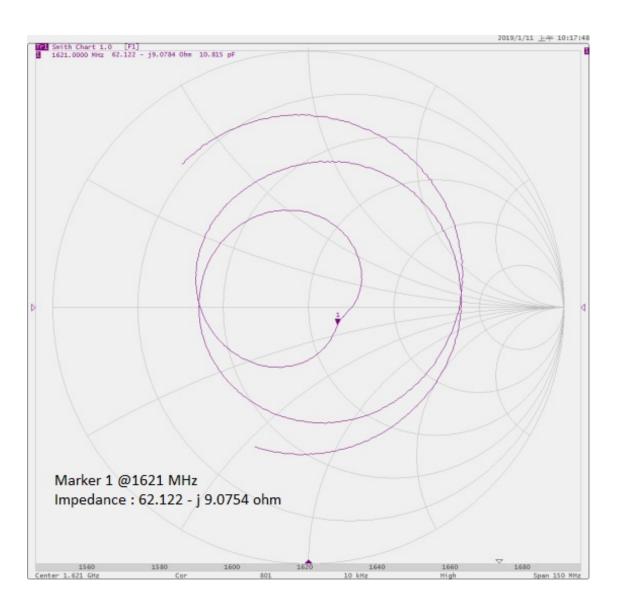


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Impedance Characteristics





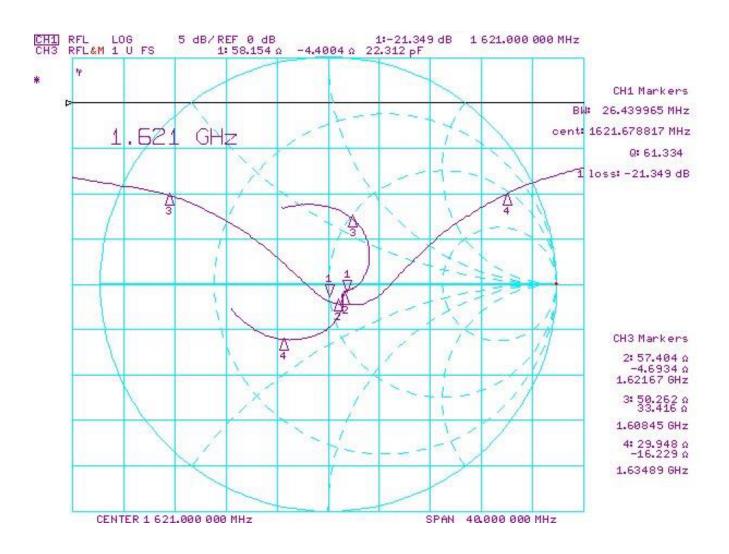


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Return Loss and Impedance Characteristics (as measured on the test fixture)







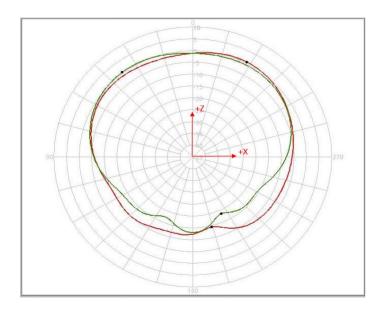
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Radiation Pattern:

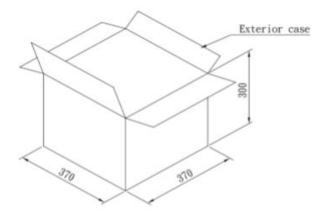
2D- Pattern



1621 MHz	Peak Gain	Zenith Gain (dBi)
XZ	0.46	-1.17
YZ	0.39	-1.16

Packaging

The casing is of dimension 370.0 x 370.0 x 300.0 mm and contains 100 units in each.







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Reliability Tests

- i. Low-temperature test: Expose the specimen to -40°C for 400 hours and then to normal temperature/ humidity for 24 hours or more. After this test, examine its appearance and functions.
- ii. High-temperature test: Expose the specimen to +105°C for 400 hours and then to normal temperature/humidity for 24 hours or more. After this test, examine its appearance and functions.
- iii. High-temperature/ High-humidity test: Subject the object to the environmental conditions of +60°C and 90 95 % R.H. for 96 hours, then expose to normal temperature/ humidity for 24 hours or more. After this test, examine its appearance and functions.
- iv. Thermal shock test: Subject the object to cyclic temperature change (-40°C, 2 hours ↔ +85 °C, 2 hours) for 100 cycles, then expose to normal temperature/humidity for 24 hours or more. After this test, examine its appearance and functions.
- v. Vibration test:
 - Sinusoidal vibration test: Subject the object to vibrations of 5 to 200 to 5 Hz swept in 10 minutes, 4.5 G at maximum (2 mm amplitude), in X and Y directions for two hours each and in Z direction for four hours. After this test, examine its appearance functions.
 - Vibration test in packaged condition: Subject the object, which is packaged as illustrated, to vibrations of 15 to 60 to 15 Hz swept in 6 minutes, 4 G at maximum (2 mm amplitude at maximum), applied in X, Y and Z directions for two hours each, i.e. six hours in total. After this test, examine its appearance and functions.
- vi. Free fall test in packaged condition: Drop the object, which is packaged as illustrated, to a concrete surface from the height of 90 cm, on one comer, three edges and six faces once each, i.e. 10 times in total. After this test, examine its appearance and functions.
- vii. Soldering heat resistance test: The lead pins of the unit are soaked in solder bath at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 seconds. After this test, examine its appearance and functions.
- viii. Adhesion test: The device is subjected to be soldered on test PCB. Then apply 0.5 Kg (5 N) of force for 5±1 seconds in the direction parallel to the substrate. (The soldering should be done by reflow and be conducted with care so that the soldering is uniform and free of defect by stress such as heat shock).

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