4.5 dBi MultiBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector

Antennas Technical Data Sheet ET12964

Features

- Highly efficient printed circuit board (PCB) design
- Designed for omni-directional applications
- Low profile, compact size
- IPEX, U.FL, UMCX compatible connector

Applications

- Integrate into self contained wireless equipment
- Embedded applications requiring integration flexibility
- 2.4 GHz & 5 GHz WLAN

Description

The ET12964 is a multiband omnidirectional antenna designed to integrate into devices requiring wireless capability. By embedding these antennas directly into a device, the need for external antennas is eliminated. The omni-directional radiation pattern makes it ideal for multipoint and mobile wireless systems.

Configuration

Design	PCB
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	1.13mm
Cable Length	3.937 in [100 mm]
Connector Type	UMCX Plug
Number of Ports	1
Housing Material and Plating	Polymer

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,900	GHz
Input VSWR			2.5:1	
Impedance		50		Ohms
Gain		4.5		dBi
Gain	2.5			dBi
Input Power			5	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2,400-2,500	4,900-5,900				MHz
Gain	2.5	4.5				dBi

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4.5 dBi MultiBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector ET12964

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park,
Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.

Webstie:www.ebeestock.com Email:sales@ebeestock.com

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Mechanical Specifications

Housing Material	Polymer
Size	
Overall Length	1.65354331 in [42 mm]
Width	0.26377953 in [6.7 mm]
Height	0.00629921 in [0.16 mm]

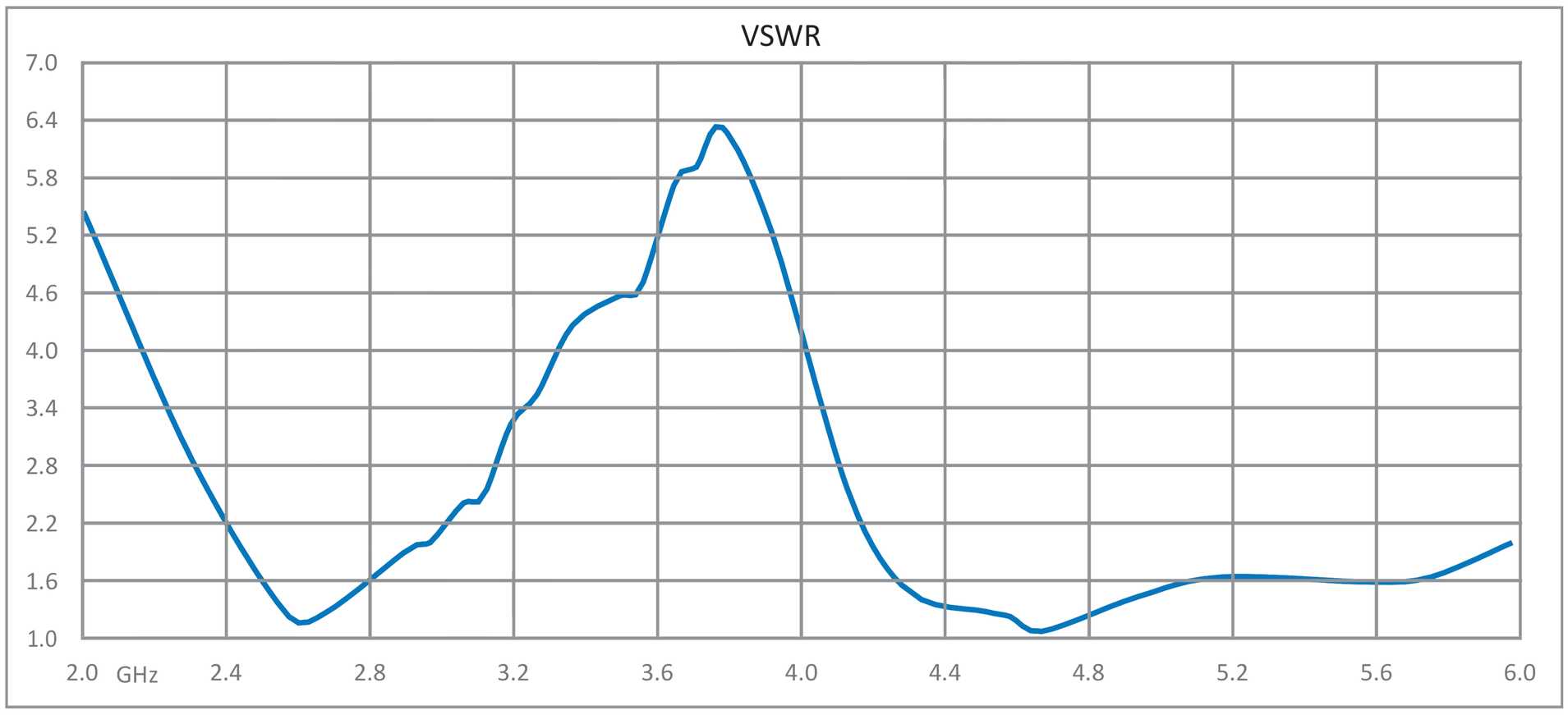
Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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4.5 dBi MultiBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 4.5 dBi MultiBand Embedded PCB Antenna 2,400-5,900 MHz UMCX Connector ET12964

URL: https://www.ebeestock.com/4-5-dbi-multiband-embedded-pcb-antenna-2-400-5-900-mhz-umcx-connector-0012964

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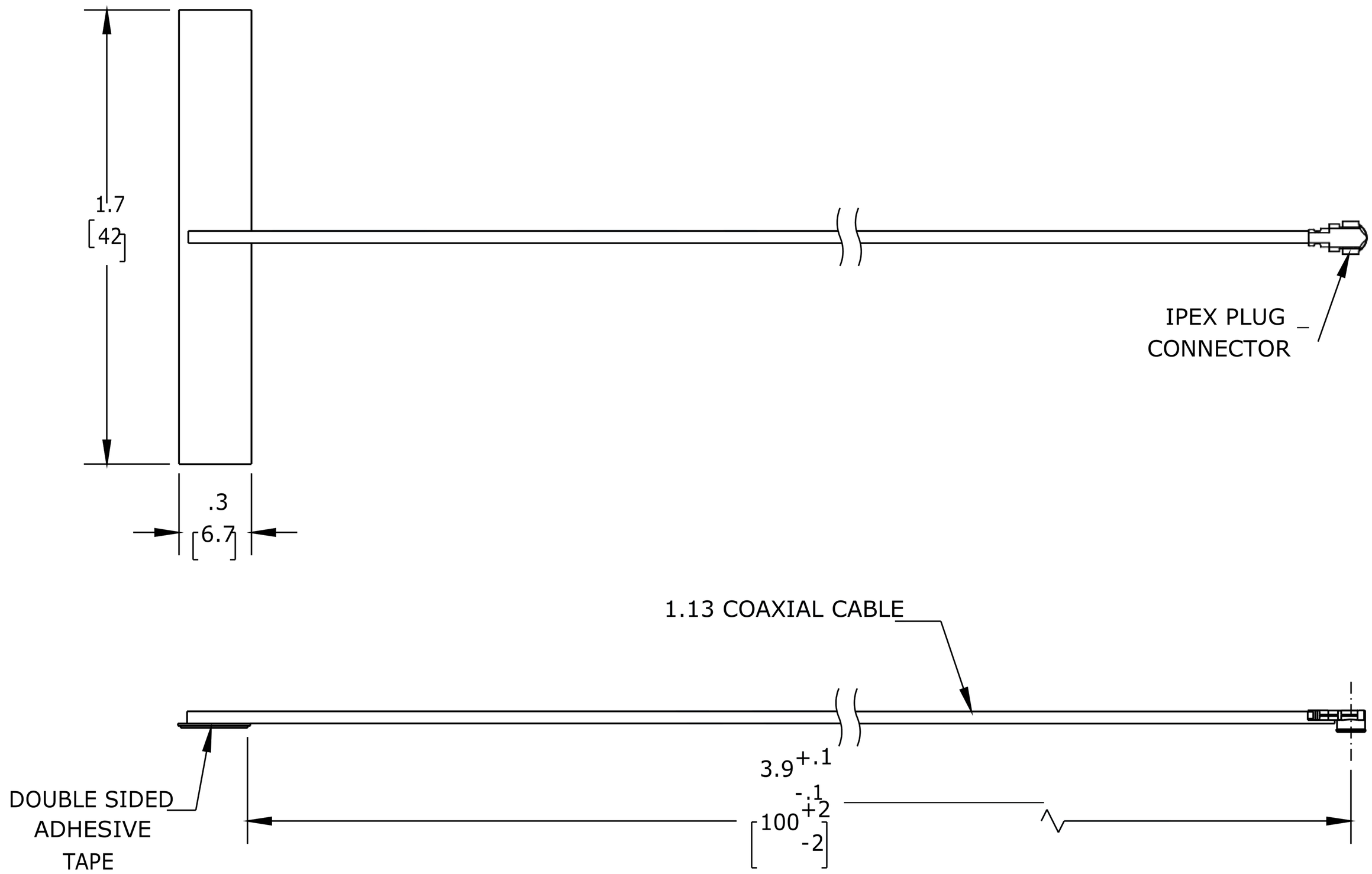
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/18/2020	KHIETPAS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]
.XX = ± .02 [.51]
.XXX = ±.005 [.13]

FRACTIONS
± 1/32
ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SLI	ET12964	A

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