

MAN1216Q25

Quadrifilar Helix Antenna For GPS Glonass & BDS



Quadrifilar Helix Antenna

For L1/L2/L5 G1/G2 B1/B2/B3

MAN1216Q25

60 x Φ 24.5mm

All Use For RF & Microwave

Shenzhen Magsine technology co., ltd www.magsine.com sales@magsine.com may contain us for future information

Feb. 03, 2024

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FEATURES

- 1, High gain and low Noise Figure.
- 2, Light weight less then 20g.
- 3, Convenient connect both DC bias and RF Signal through SMA
- 4, IP67 compliance



DESCRIPTION

The MAN1216Q25 is a Quadrifilar Helix antenna in structure, which has better gain and wide-angle circular polarization characteristics compared to traditional antennas. It can receive more low elevation satellite signals. Especially suitable for devices such as UAV, handheld devices, wearable devices, etc. It convenient connected both DC bias and RF Signal through one SMA. All Antennas are 100% RF tested.

MAXIMUM RATINGS

Characteristic	Ratings	Units
Weight	18	g
Operating Temperature Range	-40~+85	°C
Storage Temperature Range	-40~+85	°C
Moisture Sensitivity Levels	3	MSL
Classification of Waterproof	IP67	

ANTENNA CHARACTERISTICS

Item	Frequency Range	Min.	Typ.	Max.
Gain(dB)	GPS L1	2		
	GPS L2	2		
	GPS L5	-2		
	GLONASS G1	-1.5		
	GLONASS G2	-1.0		
	BDS B1	1.5		
	BDS B2	1.0		
	BDS B3	-2		
Characteristics Impedance (Ω)		50 (Nominal)		
Polarization		RHCP		
Covering Range (°)		360		
Out Put VSWR (:1)				2
Pear Axial Ratio (dB)				3

- Ta: +25±5°C

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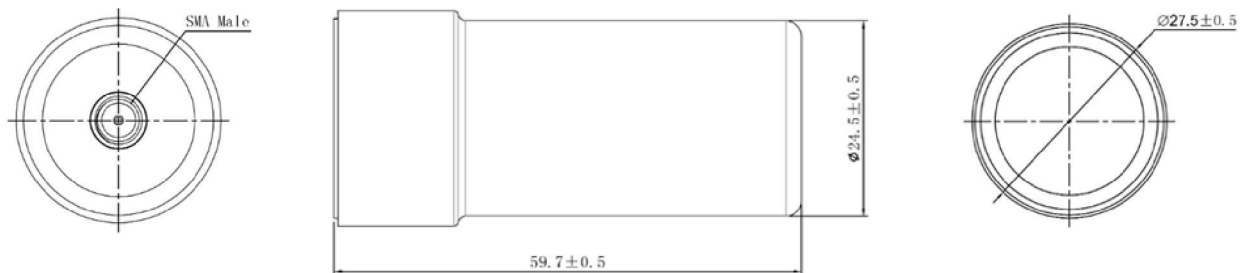


AMPLIFIER CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Gain (dB)		-	28	
Noise Figure (dB)				1.5
InPut VSWR (:1)				2
Output VSWR (:1)				2
Voltage (V)		3.3		5
Current (mA)				29

- Ta: +25±5°C

SHAPES AND DIMENSIONS



Revision	Description	Date
Rev0	Preliminary	2024/2/26

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