

MAN1516Q18

Quadrifilar Helix Antenna For GNSS



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For L1/G1/B1/E1

MAN1516Q18

50 x Φ 18.5 mm

All Use For RF & Microwave

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Quadrifilar Helix Antenna For GNSS

MECSINE 兆讯

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 MAN1516Q18 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	10	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(dBi)	GPS L1		2	
	GLONASS G1		1	
	BDS B1		1.5	
	GALILEO E1		2	
Characteristics Impedance (Ω)	50 (Nominal)			
Polarization	RHCP			
Covering Range (°)	360			
Out Put VSWR (:1)	2			
Axial Ratio (dB)	3			

• Ta: +25±5°C

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		16
Current (mA)				20

• Ta: +25±5°C

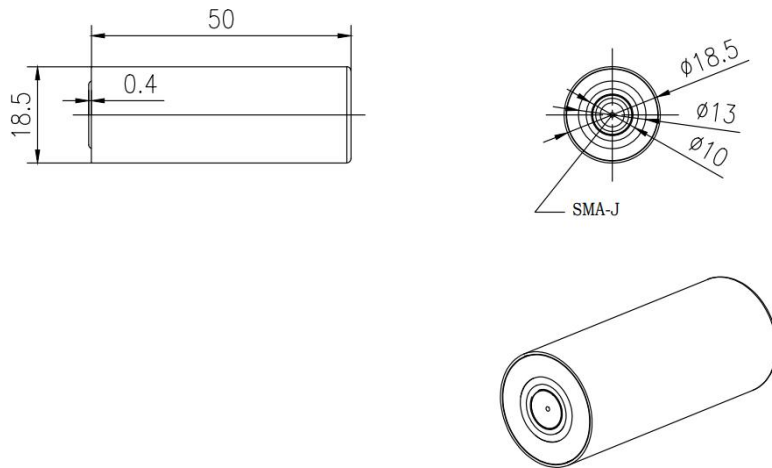
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SHAPES AND DIMENSIONS



Revision	Description	Date
Rev0	Preliminary	2024/5/30

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