

MAN1216Q25P

Quadrifilar Helix Antenna For GNSS

MECSINE 兆赫

Quadrifilar Helix Antenna

For L1/L2/L5 G1/G2 B1/B2/B3 E1/E5

MAN1216Q25P

58.7 x Φ 27.7mm

All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com

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FEATURES

1. Wide Bandwidth
2. Light weight less then 20g.
3. RF signal transmitted through a single SMA connector.
4. IP67 compliance.



DESCRIPTION

The MAN1216Q25P is a Quadrifilar Helix Antenna featuring superior gain and wide-angle circular polarization characteristics compared to traditional antennas, enabling reception of more low-elevation satellite signals. It is especially suitable for UAVs, handheld devices, wearable devices, and similar applications. RF signal is conveniently transmitted through a single SMA connector. All antennas are 100% RF tested.

MAXIMUM RATINGS

Characteristic	Ratings	Units
Weight	13	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		0.5	
	GPS L5		-1.5	
	GLONASS G1		0	
	GLONASS G2		-1.5	
	BDS B1		1.5	
	BDS B2a		-1.5	
	BDS B2b		1.5	
	BDS B3i		-3.5	
	GALILEO E1		2	
	GALILEO E5a		-1.5	
	GALILEO E5b		1.5	
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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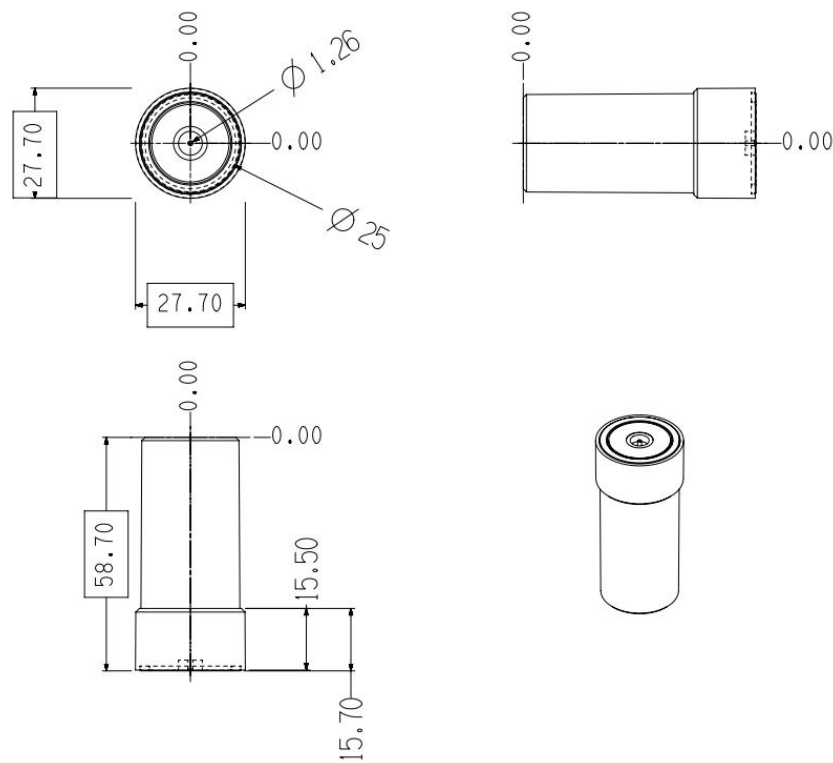
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SHAPES AND DIMENSIONS



Revision	Description	Date
Rev0	Preliminary	2026/6/25

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