

MAN1216Q39P

Quadrifilar Helix Antenna For GNSS

MECSINE 兆赫

Quadrifilar Helix Antenna

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

MAN1216Q39P

41 x Φ 44.3 mm

All Use For RF & Microwave

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

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FEATURES

1. High gain and Wide Bandwidth.
2. Light weight less then 25g.
3. RF signal transmitted through a single SMA connector.
4. IP67 compliance.



DESCRIPTION

The MAN1216Q39P 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	22	g
Operating Temperature Range	-40~+85	°C
Storage Temperature Range	-40~+85	°C
Moisture Sensitivity Levels	3	MSL

ANTENNA CHARACTERISTICS

Item	Frequency Range	Min.	Typ.	Max.
Gain(dBi)	GPS L1		2.5	
	GPS L2		1.5	
	GPS L5		0	
	GLONASS G1		2	
	GLONASS G2		0	
	BDS B1		2	
	BDS B2a		0	
	BDS B2b		2.5	
	BDS B3i		-2	
	E1		2.5	
	E5a		0	
	E5b		2.5	
	L-Band		1.5	
Characteristics Impedance (Ω)		50 (Nominal)		
Polarization		RHCP		
Covering Range (°)		360		
Out Put VSWR (:1)		2		
Axial Ratio (dB)		3		

- Ta: +25±5°C

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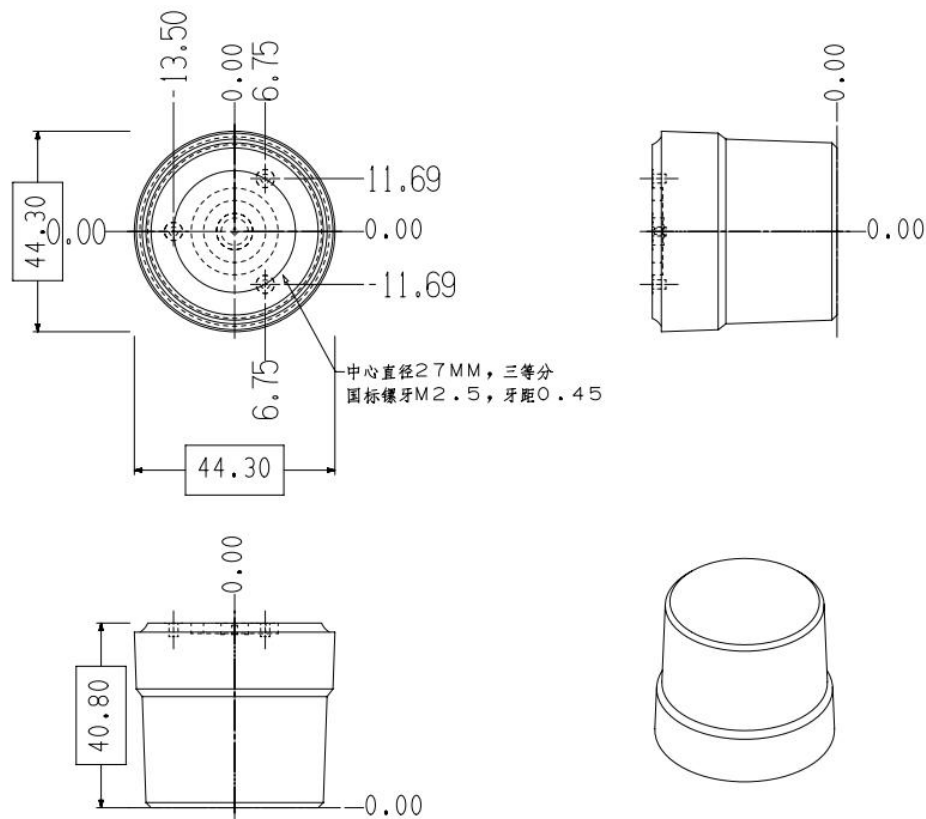
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SHAPES AND DIMENSIONS



Revision	Description	Date
Rev0	Preliminary	2026/6/25