

HIGH-PERFORMANCE TIMING ANTENNA FOR COMMUNICATION APPLICATIONS

Product Description

MT2202A is an integrated timing antenna that provides precise clock signals. The antenna integrates a timing module, which can meet the needs of the current integrated timing design of communication base station equipment. Timing antennas can provide precise clock signals for base stations, power equipment, navigation, etc.

Application Field

The antenna can be used with a variety of satellite timing receivers, and is widely used in communications, electric power, precision agriculture and marine fields, and can also be selected for use in the military field according to application conditions.



KEY FEATURES

- Supports 1159 ~ 1606MHz、GPS L1、Galileo G1 signal reception
- Trouble-free deployments in congested cell-site applications
- Powerful attenuation mitigation, via low noise, high gain amplifier, multi-stage filtering, superior out-of-band rejection and lower elevation pattern performance
- Designed for safety, with transient voltage suppression and protection from reverse polarity and electrostatic discharge (ESD)
- Protection from the elements, Unique radome shape prevents water, ice and bird perching issues

TIMING ANTENNA MT2202A



PERFORMANCE

Signal Received	
GPS	L1
GALILEO	G1
Frequency Range	1159 ~ 1606MHz
Gain	≥4dBi
Antenna AR	≤3.0dB
Horizontal Beam Width	360°
Vertical Beam Width	105°
Polarization	RHCP
Port Impedance	50Ω
LNA Gain	31±2dB
Noise Figure	≤2.0@-40°C ~ +85°C

1dB Compression Point Input P1dB

≥-30dBm @ 1525MHz ~ 1625MHz
≥ +33 dBm @ 10 MHz ~ 787 MHz
≥ +33 dBm @ 1805 MHz ~ 1880 MHz
≥ +33 dBm @ 1930 MHz ~ 1990 MHz
≥ +33 dBm @ 2110 MHz ~ 2180 MHz
≥ +33 dBm @ 2620 MHz ~ 2690 MHz

Out Of Band Rejection	
> 70 dBc @ 1575.42 ± 50 MHz	
> 70 dBc @ 1575.42 ± 75 MHz	
VSWR	≤1.8
Operation Voltage	5±1.5 DC
Operation Current	≤35@5V
Peak Current	≤100mA
EMC Compliance	
ETSI-EN 301 489 -1 V1.9.2(2011-09)	
Lightning Protection Performance	
5 KA, 8/20 us	

MECHANICAL

Dimensions	
Without Connector	Φ82×1007mm
Connector	N-K
Net Weight	≤225g
Total Weight	≤600 g

ENVIRONMENTAL

Temperature	
Operating	-40°C to +85°C
Storage	-55°C to +85°C

Waterproof Grade	IP67
Humidity	95% non-condensing
MTBF	≥50000h

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Structure & Phase Center Drawing (mm)

