

GPS Ref Oscillators for Transmitters

Specifications

Frequency
10MHz

Frequency Stability
When locked to Satellite
$\pm 3 \times 10^{-12}$

Frequency Stability
When without GPS lock four
hours
$\pm 2 \times 10^{-10}$

Phase Noise Typical
100Hz -120dBc 1KHz -140dbc

Outputs
Sinewave and TTL

Start Up Time
20 mins

GPS locked Indicator

Operating Temperature
0 deg C to 40 deg C

Power 220V AC
120V available opt A



The XIC-100 is a high performance GPS locked precision oscillator for transmitters and test instruments requiring a very accurate timing source .

The unit tracks up to eight satellites and provides a accuracy of $\pm 3 \times 10^{-12}$.

The internal oven oscillator is constantly calibrated to the UTC-GPS reference broadcast by

GPS satellites worldwide. In the event of GPS signal loss after 4hours the accuracy of the oscillator is $\pm 2 \times 10^{-10}$ The XIC-101 is an oscillator with a low phase noise output. Programmable to to any frequency 1uHz to 30Mhz in 1uHz steps

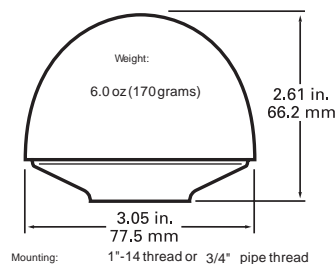
Price
XIC-100 \$2442.⁰⁰
XIC-101 \$3,333.⁰⁰

Connectors
Input F 75 ohm
outputs BNC

GPS Antenna TIC-100

SPECIFICATIONS

Primepower: +5 Vdts DC ($\pm 10\%$)
Powerconsumption: 30 mA maximum
Outputimpedance: 50W
Frequency: 1575.42MHz ± 1.023 MHz
Polarization: Right-hand circular polarization (RHCP)
VSWR: 2.0 maximum
Axialratio: 90°: 4.0 dB maximum; 10°: 6 dB maximum
Gain: 35 dB ± 3 dB
Noise: 3.3dB maximum(25°C $\pm 5^\circ$ C)
Pass-bandwidth: 50 MHz
Out of Bandrejection: f_c : 1575.42MHz
 $f_o \pm 20$ MHz : 7dB min
 $f_o \pm 30$ MHz : 12dB min
 $f_o \pm 40$ MHz : 20dB min
 $f_o \pm 100$ MHz : 100dB min
Azimuthcoverage: 360° (omni-directional)
Elevationcoverage: 0° to 90° elevation(hemispherical)
Operatingtemp: -40°C to +85° C
Shock: 50 g vertical, 30 g all axes
Humidity: Mil-STD-810E
Corrosion: 5% Salt spray
Waterproof: Immersion to 1 meter/connector sealed



CONNECTORS



F-type



TIC-100 Price \$139.⁵¹