

Oscillating modules M311010

Oscillator with electrical frequency tuning in 26.0–37.5 GHz frequency range



FEATURES

- High rate of frequency tuning
- Higher power
- Low level of power change
- Low level of AM-, FM-noise

APPLICATION

Microwave oscillator with electrical frequency tuning, M311010 module, is designed for application:

- in various devices with phase lock;
- in radar systems of precise measurement of distance and level of liquid and bulk solids materials;
- in equipment intended for wireless data transmission.

DESCRIPTION

Oscillator, M311010 module, is made on GaAs Gunn diode which produced at Scientific Research Institute "Orion". Gunn diode and varactor are set into a cavity which operates on E_{010} mode.

The oscillator is made with output waveguide section of 7.2x3.4 mm, type of connecting waveguide flanges is according to Γ OCT 13317-89.

There is an isolator at the oscillator output.

Tel.: (044) 456-9164; Fax: (044) 456-5291; orion@ri-orion.kiev.ua



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Operating frequencies*, GHz Range of electrical frequency tuning, GHz Output power mW no less

Output power, mW, no less

Control voltage, V

Spectral power density at 10 kHz offset from carrier, dB/Hz:

• AM noise
• FM noise

-80

Maximal operating voltage, V

Fower consumption, W, no more

5.0

Temperature range, °C

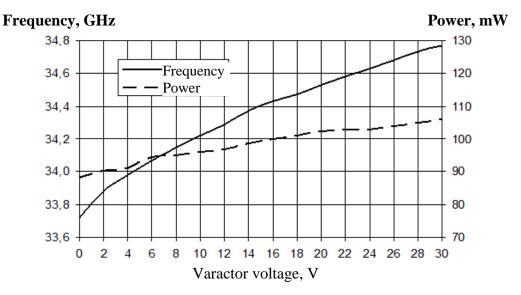
-50...50

*Initial operating frequency within stated range is chosen by a customer.

CHARACTERISTICS

Weight, g, no more

Tuning characteristics of M311010 oscillator



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230

37x48x35

Overall dimensions (LxWxH), mm



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OVERALL DIMENSIONS DRAWING

