



Oscillator with electrical frequency tuning in 31.5–37.5 GHz frequency range



FEATURES

- *High rate of frequency tuning*
- *Improved linearity of tuning characteristic*
- *Low weight and overall dimensions*
- *Low level of AM noise*

APPLICATION

Microwave oscillator, **M311011** module, with electrical frequency tuning and refined linearity of tuning characteristic is designed for application:

- in various devices with phase lock;
- in radar systems of precise and super precise measurement of distance, and also levels of liquid and bulk solids materials;
- in equipment of moving objects identification;
- in equipment intended for wireless data transmission

DESCRIPTION

Oscillator, **M311011** module, is made on GaAs Gunn diode which produced at Scientific Research Institute "Orion". Gunn diode and varactor are set in waveguide of reduced section.

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

There is an insulator at the oscillator output.

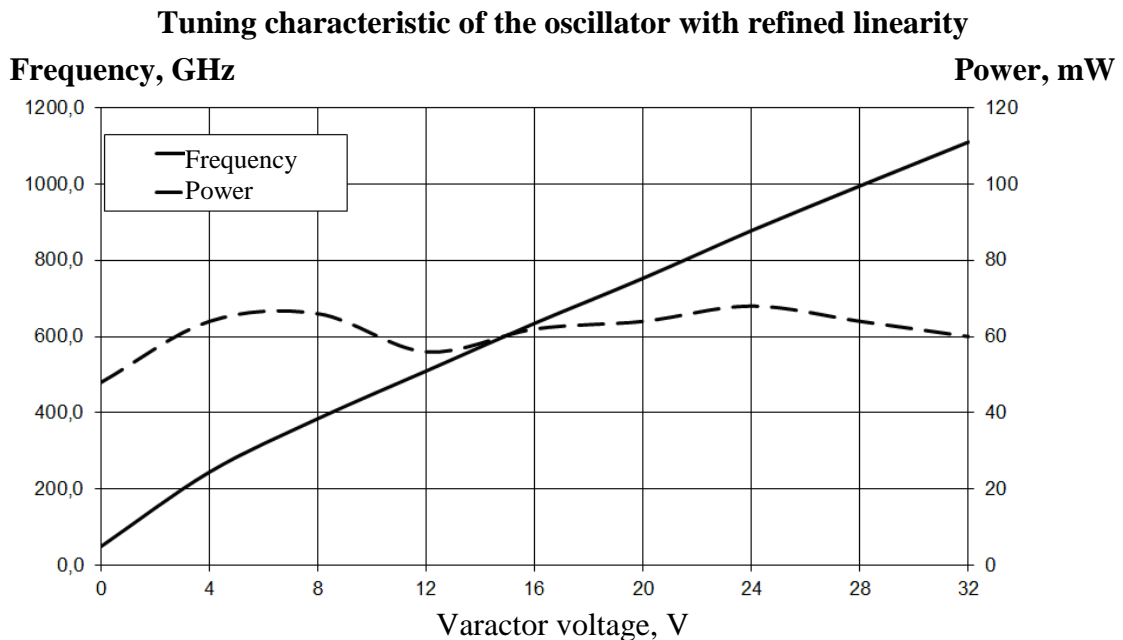


SPECIFICATIONS

Operating frequencies *, GHz	31.5–37.5
Range of electrical frequency tuning, MHz	800
Output power, mW, no less	35
Slope of electrical frequency tuning, MHz /V	20–90
Voltage of control, V	0–30
Operating voltage, V, no more	6.0
Maximal power consumption, W, no more	5.0
Temperature range, °C	-50...50
Weight, g, no more	140
Overall dimensions (LxWxH), mm	42x32x38

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

CHARACTERISTICS OF OSCILLATOR





OVERALL DIMENSIONS DRAWING

