



Multibeam miniature Ka band TWT



APPLICATION

Multibeam miniature travelling wave tube (TWT) of pulse mode (**under development**) with low operating voltage are designed to be used in transmitters of onboard compact coherent Doppler radar for different applications in the frequency range of 35–40 GHz. The composition of subcomponent also includes the compact solid state pre-amplifier.

DESCRIPTION

TWT features metal-ceramic design with conductive cooling. 19-beam electron gun with control low-voltage electrode are used. Slow wave structure is a chain of coupled cavities with nineteenth drift channels. Electronic beam focusing is realized by means of PPM system.



SPECIFICATION

Operating frequency range*, GHz	36,0–36,1
Pulse output power, W	250
Duty factor	0,1
Pulse duration, μsec	0,5–1,0
Gain, dB	30
Slow wave structure voltage, kV	3,6
Efficiency, %	20
FM noise at carrier offset of 5 kHz, dB/Hz	-90
AM noise at carrier offset of 5 kHz, dB/Hz	-110
Weight, g	700
Dimensions, mm	245x86x67

* Центральная рабочая частота указывается при заказе