

ELECTRONIC TUBE REFERENCE

OV13

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Russian backward-wave microwave tube; Used as signal source in measuring equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave

No fixed ratings recorded.

Backward-wave microwave tube. Cathode Type: Impregnated, Indirect Heating; Output Type: Waveguide; Envelope: Metal-Ceramic, With Permanent Magnet; Mass: 5kg; Cooling Method: Forced Air; Frequency Range: 4.7cm; Frequency Range Minimum: 3.7cm; Frequency Range Maximum: 5.7cm; Output Power: 5mW; Filament Voltage, V: 5; Filament Current, A: 2; First Anode Voltage, V: 250; First Anode Voltage, V Minimum: 100; First Anode Voltage, V Maximum: 400; Slow-Wave Circuit Voltage, V: 975; Slow-Wave Circuit Voltage, V Minimum: 500; Slow-Wave Circuit Voltage, V Maximum: 1450

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Russian Backward Wave

Published test conditions and operating points. Values on this page are preserved as reported by this source.

2026 RUSSIAN BACKWARD WAVE

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OutputPower	5 mW	RF output power
Wavelength	4.7 cm	Nominal wavelength, not frequency
SlowWaveStructureVoltage	975 V	First anode or slow-wave circuit voltage as specified