



ELECTRONIC TUBE REFERENCE

OV1

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Russian backward-wave microwave tube; Application in measuring equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave

No fixed ratings recorded.

Backward-wave microwave tube. Cathode Type: Oxide, Sintered, Indirect Heating; Output Type: Waveguide; Envelope: Glass, Electromagnetic Focusing System; Mass: 48g; Cooling Method: Forced Air; Frequency Range: 3.8cm; Frequency Range Minimum: 2.95cm; Frequency Range Maximum: 4.6cm; Power Irregularity In Frequency Band, Db: 9; Output Power: 15mW; Filament Voltage, V: 6.3; Filament Current, A: 0.6; Filament Current, A Minimum: 0.4; Filament Current, A Maximum: 0.8; First Anode Voltage, V: 230; First Anode Voltage, V Minimum: 160; First Anode Voltage, V Maximum: 300; Collector Voltage, V: 1275; Collector Voltage, V Minimum: 500; Collector Voltage, V Maximum: 2050; External Loading Agreement Coefficient: 1.2

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	15 mW	RF output power
Wavelength	3.8 cm	Nominal wavelength, not frequency
FirstAnodeVoltage	230 V	First anode or slow-wave circuit voltage as specified