



ELECTRONIC TUBE REFERENCE

OV19

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Russian backward-wave microwave tube; Used as heterodyne and low-power generator in measuring equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 4 A	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: Pressed, Tungsten, Indirect Heating; Output Type: Coaxial; Envelope: Glass, With Permanent Magnet; Mass: 2.5kg; Cooling Method: Natural; Frequency Range: 8350MHz; Frequency Range Minimum: 6530MHz; Frequency Range Maximum: 10170MHz; Power Irregularity In Frequency Band, Db: 8.5; Output Power: 25mW; Filament Voltage, V: 6.3; Filament Current, A: 4; First Anode Voltage, V: 185; First Anode Voltage, V Minimum: 70; First Anode Voltage, V Maximum: 300; Slow-Wave Circuit Voltage, V: 600; Slow-Wave Circuit Voltage, V Minimum: 200; Slow-Wave Circuit Voltage, V Maximum: 1000; External Loading Agreement Coefficient: 1.7

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	25 mW	RF output power
FrequencyRange	8350 MHz	Nominal frequency
SlowWaveStructureVoltage	600 V	First anode or slow-wave circuit voltage as specified

TUBE TINKER

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and their source documents.

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