



ELECTRONIC TUBE REFERENCE

OV38B

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Russian backward-wave microwave tube; Used as electronically tunable UHF source.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.1 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: Metal-Ceramic, With Shielded Permanent Magnet; Mass: 1.35kg; Cooling Method: Natural; Frequency Range: 10285MHz; Frequency Range Minimum: 8150MHz; Frequency Range Maximum: 12420MHz; Power Irregularity In Frequency Band, Db: 6; Output Power: 50mW; Tuning Transconductance: 10MHz/V; Filament Voltage, V: 6.3; Filament Current, A: 1.1; Filament Current, A Minimum: 0.7; Filament Current, A Maximum: 1.5; First Anode Voltage, V: 225; First Anode Voltage, V Minimum: 150; First Anode Voltage, V Maximum: 300; Slow-Wave Circuit Voltage, V: 1075; Slow-Wave Circuit Voltage, V Minimum: 400; Slow-Wave Circuit Voltage, V Maximum: 1750; 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	50 mW	RF output power
FrequencyRange	10285 MHz	Nominal frequency
SlowWaveStructureVoltage	1075 V	Slow-wave circuit voltage

TUBE TINKER

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and their source documents.

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