

ELECTRONIC TUBE REFERENCE

OV620

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

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

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

SECTION1 TravelingWave

No fixed ratings recorded.

Backward-wave microwave tube. Cathode Type: Tungsten-Baric, Indirect Heating; Output Type: Coaxial; Envelope: Metal-Glass, With Permanent Magnet; Mass: 2.5; Cooling Method: Natural; Frequency Range: 5768MHz; Frequency Range Minimum: 4477MHz; Frequency Range Maximum: 7059MHz; Power Irregularity In Frequency Band, Db: 10; 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: 560; Slow-Wave Circuit Voltage, V Minimum: 220; Slow-Wave Circuit Voltage, V Maximum: 900; 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	5768 MHz	Nominal frequency
SlowWaveStructureVoltage	560 V	Slow-wave circuit voltage