



ELECTRONIC TUBE REFERENCE

OV611

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	12.6 V / 1.5 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: Oxide, Sintered, Indirect Heating; Output Type: Coaxial; Envelope: Metal-Glass, With Permanent Magnet; Mass: 15kg; Cooling Method: Natural; Frequency Range: 744MHz; Frequency Range Minimum: 488MHz; Frequency Range Maximum: 1000MHz; Power Irregularity In Frequency Band, Db: 8; Output Power: 200mW; Filament Voltage, V: 12.6; Filament Current, A: 1.5; First Anode Voltage, V: 55; First Anode Voltage, V Minimum: 30; First Anode Voltage, V Maximum: 80; Slow-Wave Circuit Voltage, V: 400; External Loading Agreement Coefficient: 1.6

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	200 mW	RF output power
FrequencyRange	744 MHz	Nominal frequency
SlowWaveStructureVoltage	400 V	Slow-wave circuit voltage