ELECTRONIC TUBE REFERENCE

OV604

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 / 1.6 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: Oxide, Sintered, Indirect Heating; Output Type: Coaxial; Envelope: Metal-Glass, With Permanent Magnet; Mass: 4.5kg; Cooling Method: Natural; Frequency Range: 2132.5MHz; Frequency Range Minimum: 1540MHz; Frequency Range Maximum: 2725MHz; Power Irregularity In Frequency Band, Db: 14; Output Power: 40mW; Filament Voltage, V: 6.3; Filament Current, A: 1.6; Filament Current, A Minimum: 1.3; Filament Current, A Maximum: 1.8; First Anode Voltage, V: 120; First Anode Voltage, V Minimum: 60; First Anode Voltage, V Maximum: 180; Slow-Wave Circuit Voltage, V: 735; Slow-Wave Circuit Voltage, V Minimum: 170; Slow-Wave Circuit Voltage, V Maximum: 1300; External Loading Agreement Coefficient: 1.7

SOURCE OPERATING CONDITIONS

2026 Russian Backward Wave

SOURCE PDF

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	**40 mW**	RF output power
FrequencyRange	**2132.5 MHz**	Nominal frequency
SlowWaveStructureVoltage	**735 V**	Slow-wave circuit voltage

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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