ELECTRONIC TUBE REFERENCE

OV47

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	1.2 V / 2.8 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**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: Alloy, Direct Heating; Output Type: Waveguide; Envelope: Metal-Ceramic, With Permanent Magnet; Mass: 1.1kg; Cooling Method: Conductive; Frequency Range: 6.9cm; Frequency Range Minimum: 5.45cm; Frequency Range Maximum: 8.31cm; Power Irregularity In Frequency Band, Db: 8; Output Power: 10m; Filament Voltage, V: 1.2; Filament Current, A: 2.8; Slow-Wave Circuit Voltage, V: 775; Slow-Wave Circuit Voltage, V Minimum: 350; Slow-Wave Circuit Voltage, V Maximum: 1200

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
Wavelength	**6.9 cm**	Nominal wavelength
SlowWaveStructureVoltage	**775 V**	Slow-wave circuit voltage

Tube Tinker

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

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