



ELECTRONIC TUBE REFERENCE

UV50B

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Russian traveling-wave tube; Hf power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 325 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave

No fixed ratings recorded.

Application: Hf power amplification. Cathode type: Oxide, indirect heating; Output type: Waveguide 3x17mm; Envelope: Glass with permanent magnetic system in metal envelope; Mass: 1.1kg; Cooling method: Natural; Frequency range: 2.6 cm; Frequency range Minimum: 2.25 cm; Frequency range Maximum: 3 cm; Output power: 167.5 mW; Output power Minimum: 35 mW; Output power Maximum: 300 mW; Gain: 27dB; Filament voltage, v: 6.3; Filament current, a: 0.325; Filament current, a Minimum: 0.25; Filament current, a Maximum: 0.4; Slow-wave circuit voltage, v: 1750; Slow-wave circuit voltage, v Minimum: 1500; Slow-wave circuit voltage, v Maximum: 2000; Control electrode voltage, v: 80; Collector voltage, v: 1750; Collector voltage, v Minimum: 1500; Collector voltage, v Maximum: 2000; External loading agreement coefficient: 4; Noise coefficient: 31dB

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Russian Traveling Wave

Published test conditions and operating points. Values on this page are preserved as reported by this source.

2026 RUSSIAN TRAVELING WAVE

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wavelength	2.25–3 cm	Wavelength, not frequency
SlowWaveStructureVoltage	1500–2000 V	slow-wave circuit voltage, v
OutputPower	35–300 mW	output power
Gain	27 dB	gain

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker