ELECTRONIC TUBE REFERENCE

UV278A

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Russian traveling-wave tube; Application in transmitter.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	8 V / 750 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 TravelingWave

No fixed ratings recorded.

Application: Application in transmitter. Cathode type: Oxide, indirect heating; Output type: Coaxial; Envelope: Metal-ceramic; Mass: 1.3kg; Cooling method: Conductive; Frequency range: 6.1 GHz; Frequency range Minimum: 5.7 GHz; Frequency range Maximum: 6.5 GHz; Output power: 20W; Gain: 37dB; Filament voltage, v: 8; Filament current, a: 0.75; Filament current, a Minimum: 0.6; Filament current, a Maximum: 0.9; First anode voltage, v: 2800; First anode voltage, v Minimum: 2600; First anode voltage, v Maximum: 3000; Slow-wave circuit voltage, v: 2600; Slow-wave circuit voltage, v Minimum: 2400; Slow-wave circuit voltage, v Maximum: 2800; Collector voltage, v: 1400; Collector voltage, v Minimum: 1200; Collector voltage, v Maximum: 1600; External loading agreement coefficient: 1.5

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
FrequencyRange	**5.7–6.5 GHz**	frequency range
SlowWaveStructureVoltage	**2400–2800 V**	slow-wave circuit voltage, v
FirstAnodeVoltage	**2600–3000 V**	first anode voltage, v
OutputPower	**20 W**	output power
Gain	**37 dB**	gain

Tube Tinker

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

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