



ELECTRONIC TUBE REFERENCE

UV278

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: 40dB; 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	40 dB	gain