



ELECTRONIC TUBE REFERENCE

UV204

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Russian traveling-wave tube; Input power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 1.2 A	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: Input power amplification. Cathode type: Oxide, indirect heating; Output type: Waveguide 61x10mm; Envelope: Glass with external collector; Mass: 650g; Cooling method: Forced air; Frequency range: 3650 MHz; Frequency range Minimum: 3400 MHz; Frequency range Maximum: 3900 MHz; Output power: 20W; Gain: 20dB; Filament voltage, v: 12.6; Filament current, a: 1.2; Filament current, a Minimum: 1.05; Filament current, a Maximum: 1.25; First anode voltage, v: 2300; First anode voltage, v Minimum: 2200; First anode voltage, v Maximum: 2400; Slow-wave circuit voltage, v: 2535; Slow-wave circuit voltage, v Minimum: 2500; Slow-wave circuit voltage, v Maximum: 2570; Control electrode voltage, v: 40; Control electrode voltage, v Minimum: 20; Control electrode voltage, v Maximum: 60; Collector voltage, v: 2800; Collector voltage, v Minimum: 2600; Collector voltage, v Maximum: 3000; External loading agreement coefficient: 1.2



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	3400–3900 MHz	frequency range
SlowWaveStructureVoltage	2500–2570 V	slow-wave circuit voltage, v
FirstAnodeVoltage	2200–2400 V	first anode voltage, v
OutputPower	20 W	output power
Gain	20 dB	gain

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