ELECTRONIC TUBE REFERENCE

UV416B

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Russian traveling-wave tube; Application in radio equipment.

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 radio equipment. Cathode type: Indirect heating; Output type: Coaxial; Envelope: Metal-ceramic; Mass: 0.85kg; Cooling method: Conductive; Frequency range: 5300 MHz; Frequency range Minimum: 4900 MHz; Frequency range Maximum: 5700 MHz; Output power: 22W; Gain: 38.5 dB; Gain Minimum: 37 dB; Gain Maximum: 40 dB; 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: 2700; Slow-wave circuit voltage, v Minimum: 2500; Slow-wave circuit voltage, v Maximum: 2900; Control electrode voltage, v: 30; Collector voltage, v: 1500; External loading agreement coefficient: 1.3

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	**4900–5700 MHz**	frequency range
SlowWaveStructureVoltage	**2500–2900 V**	slow-wave circuit voltage, v
FirstAnodeVoltage	**2600–3000 V**	first anode voltage, v
OutputPower	**22 W**	output power
Gain	**37–40 dB**	gain

Tube Tinker

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

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