ELECTRONIC TUBE REFERENCE

# OV12

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**TRAVELINGWAVE**

Russian backward-wave microwave tube; Used as signal source in measuring equipment.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | – | **BASE PINS** | – |
| **NOMINAL HEATER** | 5 V / 2 A | **PARALLEL HEATER** | – / – |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

### SECTION1 TravelingWave

*No fixed ratings recorded.*

*Backward-wave microwave tube. Cathode Type: Impregnated, Indirect Heating; Output Type: Waveguide; Envelope: Metal-Ceramic, With Permanent Magnet; Mass: 5kg; Cooling Method: Forced Air; Frequency Range: 5.8cm; Frequency Range Minimum: 5.6cm; Frequency Range Maximum: 6cm; Output Power: 8mw; Filament Voltage, V: 5; Filament Current, A: 2; First Anode Voltage, V: 250; First Anode Voltage, V Minimum: 100; First Anode Voltage, V Maximum: 400; Slow-Wave Circuit Voltage, V: 975; Slow-Wave Circuit Voltage, V Minimum: 500; Slow-Wave Circuit Voltage, V Maximum: 1450*

SOURCE OPERATING CONDITIONS

# 2026 Russian Backward Wave

SOURCE PDF

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

2026 RUSSIAN BACKWARD WAVE

## Section 1 · TravelingWave

| OTHER | | |
|---|---|---|
| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
| OutputPower | **8 mW** | RF output power |
| Wavelength | **5.8 cm** | Nominal wavelength, not frequency |
| SlowWaveStructureVoltage | **975 V** | First anode or slow-wave circuit voltage as specified |