ELECTRONIC TUBE REFERENCE

# 6311

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**KLYSTRON**

Varian X-band reflex klystron oscillator designed for radar local-oscillator service over approximately 8.5–10 GHz.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | — | **BASE PINS** | — |
| **NOMINAL HEATER** | 6.3 V / 1.2 A | **PARALLEL HEATER** | — / — |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

**SECTION1** Klystron

*No fixed ratings recorded.*

Varian reflex klystron oscillator for radar local-oscillator service in the 8.5–10.0 GHz range.

SOURCE OPERATING CONDITIONS

# 1953 Varian Assoc

SOURCE PDF

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

1953 VARIAN ASSOC

## Section 1 · Klystron

### CHARACTERISTIC

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Frequency range minimum | **8.5 GHz** | — |
| Frequency range maximum | **10 GHz** | — |
| RF output power | **0.07 W** | — |

### OTHER

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Maximum resonator/beam voltage | **350 V** | — |
| Maximum resonator/beam current | **42 mA** | — |
| Maximum negative reflector voltage | **-1000 V** | — |

### CONSTRUCTION

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Microwave device type | **Reflex klystron** | — |
| Cooling method | **Forced air** | — |

### APPLICATION

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Service | **Radar/local oscillator** | — |

## Tube Tinker

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

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