

ELECTRONIC TUBE REFERENCE

F2900

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Fixed-tuned millimeter-wave reflex klystron covering approximately 33-38 GHz for signal-source, local-oscillator, pump, and low-power transmitter service.

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
<p>No fixed ratings recorded.</p> <p>Applicable promoted fields mapped from printed headings; specialized microwave/imaging/electrode data retained densely in TUBE_SECTION_PARAMETER.</p>

Millimeter-wave fixed-tuned reflex klystron for 33-38 GHz signal-source, local-oscillator, pump, and low-power transmitter service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Klystron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	33–38 GHz	—
Electronic Tuning Range	0.1 percent	Half-power points
Mechanical Tuning Range	2 percent	Optional tuner

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Operating Frequency	34.7 GHz	—
Beam Voltage Typical	2000 V	—
Beam Voltage Maximum	2500 V	—
Beam Current Typical	40 mA	—
Beam Current Maximum	50 mA	—
Reflector Voltage Typical	-780 V	—
Reflector Voltage Range	-1000--25 V	—
Grid Voltage Typical	-50 V	—
Grid Voltage Range	-100–0 V	—
Power Output Typical	1.1 W	—
Power Output Minimum	1 W	—

TUBE TINKER

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and their source documents.

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