



ELECTRONIC TUBE REFERENCE

RK6310

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Mechanically tuned single-cavity reflex klystron oscillator covering approximately 8.5–10 GHz, ruggedized for radar shock and vibration 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

SECTION 1 Klystron

No fixed ratings recorded.

Published ratings and characteristics promoted where directly applicable; additional operating data retained as section parameters.

Mechanically tuned single-cavity reflex velocity-variation microwave oscillator for CW operation from 8.5 to 10 GHz, with waveguide output and rugged construction for radar shock and vibration service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	1.2 A	Published nominal value
Frequency range	8500–10000 MHz	Published CW operating range
Electronic tuning range	48 MHz	Published typical operation
Modulation sensitivity	1.5 MHz/V	Published typical operation
Temperature coefficient	60 kHz/°C	Published typical operation

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum resonator voltage	350 V	Published maximum
Maximum resonator current	42 mA	Published maximum
Reflector voltage range	-1000–0 V	Published maximum range
Maximum ambient temperature	150 °C	Published maximum
Operating frequency	9300 MHz	Published typical operation
Resonator voltage	300 V	Published typical operation
Resonator current	28 mA	Published typical operation
Reflector voltage	-160 V	Published typical operation
RF power output	50 mW	Published typical operation