

ELECTRONIC TUBE REFERENCE

7504

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Three-cavity pulsed amplifier klystron tunable from approximately 1240–1360 MHz, designed for ground-based radar and capable of megawatt-class peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 950 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Klystron	
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM CATHODE CURRENT	37 A
Three-cavity pulsed amplifier klystron tunable from 1240 to 1360 MHz.	

Three-cavity pulsed amplifier klystron tunable from 1240 to 1360 MHz, capable of megawatt peak output for ground-based radar service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1945 Litton Industries

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

1945 LITTON INDUSTRIES

Section 1 · Klystron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	1240–1360 MHz	Mechanically tuned
Peak Power Output	2.2 MW	At 0.003 duty cycle
Gain	36 dB	Published description
Time Jitter RMS	0.5 us	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Voltage	—17 V	AC
Maximum Heater Surge Current	—20 A	—
Maximum Anode Voltage	—12 kV	—
Maximum Peak Cathode Current	—37 A	—
Maximum Average Cathode Current	—260 mA	—
Maximum RF Input Power Peak	—1 kW	—
Cathode Heating Time	20— min	—
Typical Peak Voltage	11.5 kV	—
Typical Peak Current	28 A	—
Typical Pulse Width	8 us	—

TUBE TINKER

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and their source documents.

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