



ELECTRONIC TUBE REFERENCE

7686

Specialized - Uncategorized electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

OTHER

Gas-discharge thermal-noise generator for 5.4-5.9 GHz microwave systems, providing nominal 13 dB noise output with pulsed ionization for measurement and calibration service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Other	
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM CATHODE CURRENT	150 mA
<i>Thermal noise generator for 5400-5900 MHz with gas-tube noise source.</i>	

Gas-tube thermal noise generator for 5400-5900 MHz microwave systems, specified for nominal 13 dB noise output and pulsed ionization operation.

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 · Other

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Range	5400–5900 MHz	—
Noise Output	13 dB	Nominal

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum VSWR	—1.15	Unfired
Maximum Insertion Loss	—0.2 dB	Unfired
RF Power Average Maximum	—50 mW	Continuous operation
RF Power Peak Maximum	—33 W	Continuous operation
Starting Voltage Maximum	—700 V	DC
Operating Voltage Maximum	—60 V	DC
Operating Current Maximum	—150 mA	DC
Life	5000— h	50 us energized every 3000 us
Ionization Time Maximum	—1 us	—
Deionization Time Maximum	—20 us	—
Operating Ambient Temperature	-54–60 C	—

TUBE TINKER

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and their source documents.

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