

ELECTRONIC TUBE REFERENCE

6543

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Tunable pulsed magnetron covering 8.5–9.6 GHz for high-power systems requiring approximately 80-kW-class output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 2.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE DISSIPATION	350 W
MAXIMUM CATHODE CURRENT	18 A
Tunable pulse magnetron for 8500-9600 MHz service; nominal 80 kW class.	

Tunable pulse magnetron covering 8500-9600 MHz, intended for high-power systems requiring approximately 80-kW-class output and strong reliability.

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 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse Voltage	13.5–16.5 kV	Operating condition
Pulse Current	15 A	Operating condition
Preheat Time	180— s	Minimum
Maximum Rate of Rise of Voltage	—160 kV/us	—
Maximum Heater Voltage	—13.7 V	—
Maximum Heater Surge Current	—10 A	—
Maximum Pulse Current	—18 A	—
Maximum Pulse Length	—5 us	—
Maximum Average Input Power	—350 W	—
Maximum Duty Cycle	—0.001	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Cathode Capacitance	—12 pF	Maximum
Minimum Peak Power	65— kW	—
Tunable Frequency	8500–9600 MHz	—
Pulling Factor	—15 MHz	1.1 VSWR