



ELECTRONIC TUBE REFERENCE

4J54

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Packaged pulsed magnetron oscillator covering approximately 6.775–6.875 GHz for fixed-band high-power microwave generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	450 W
MAXIMUM CATHODE CURRENT	35 A
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.</i>	

Packaged pulsed magnetron oscillator covering approximately 6775–6875 MHz.



SOURCE OPERATING CONDITIONS

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	12.6 V	Published nominal value
Heater or filament current	3.25 A	Published nominal value
Frequency range	6775–6875 MHz	Published operating band

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	450 W	Published maximum rating
RF power output	250000 W	Published output condition
Pulse duration	1 us	Published pulse condition
Duty cycle	0.002 fraction	Published duty-cycle condition
Operating anode voltage	18600 V	Published typical operation
Operating anode current	30 A	Published typical operation

TUBE TINKER

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and their source documents.

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