ELECTRONIC TUBE REFERENCE

4J55

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Packaged pulsed magnetron oscillator covering approximately 6.675–6.775 GHz for high-peak-power microwave applications.

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

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	450 W
MAXIMUM CATHODE CURRENT	35 A

Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed when applicable.

Packaged pulsed magnetron oscillator covering approximately 6675–6775 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	**6675–6775 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

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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