



ELECTRONIC TUBE REFERENCE

2J70

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Integral-magnet forced-air-cooled pulsed magnetron oscillator for approximately 3.03–3.11 GHz radar service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	7500 V
MAXIMUM PLATE DISSIPATION	200 W
MAXIMUM CATHODE CURRENT	15 A
<i>Published ratings and characteristics promoted where clearly stated.</i>	

Integral-magnet forced-air-cooled pulsed magnetron oscillator for approximately 3.03–3.11 GHz radar service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	6.3 V	Published nominal value
Heater or filament current	6 A	Published nominal value
Frequency range	3030–3110 MHz	Published operating or tuning range

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF power output	25000 W	Published operating condition
Maximum anode voltage	7500 V	Published maximum or peak rating
Maximum anode current	15 A	Published peak rating
Maximum anode dissipation	200 W	Published rating
Pulse duration	10 us	Published typical operation
Pulse recurrence rate	1000 pps	Published typical operation

TUBE TINKER

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and their source documents.

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