

ELECTRONIC TUBE REFERENCE

6406

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Fixed-frequency pulsed magnetron operating around 2.85-2.91 GHz with nominal two-megawatt peak output and forced-liquid cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.3 V / 85 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	58000 V
MAXIMUM CATHODE CURRENT	95 A
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.	

Fixed-frequency pulsed magnetron around 2.85 to 2.91 GHz with nominal 2 MW peak output and forced-liquid cooling.



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	8.3 V	Published nominal or representative value
Heater or filament current	85 A	Published nominal or representative value
Frequency range	2850–2910 MHz	Published operating or tuning range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RF power output	2000000 W	Published nominal or minimum output
Maximum pulse duration	2.2 us	Published pulse limit
Maximum duty cycle	0.0006 fraction	Published duty-cycle limit

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