

ELECTRONIC TUBE REFERENCE

7484

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Integral-magnet tunable high-power pulsed magnetron covering approximately 1.25-1.35 GHz and producing about 2 MW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.7 V / 75 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Published electrical section from 7484.pdf; identical repeated sections compressed when applicable.

Integral-magnet tunable high-power pulsed oscillator for 1250-1350 MHz service, capable of about 2 MW peak output and requiring forced-air 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
er and	2000 W	er and 2000 watts average power. The RK7484/ =
Heater Current - Preheat cesaes cerees	75 A	Heater Current - Preheat cesaes cerees 75 Amperes
Heater Voltage @ 75 A, 600 SeC. +t.vvivvesorsscnss	2.7 V	Heater Voltage @ 75 A, 600 SeC. +t.vvivvesorsscnss 2.7 Volts
Current Pulse Width (tpC) ..ieiieresnerssacnessses	2 μ s	Current Pulse Width (tpC) ..ieiieresnerssacnessses 2.0 usec
Peak Anode VOltagE ..cesccasessosssssssassassnsa	600 kV	Peak Anode VOltagE ..cesccasessosssssssassassnsa 600 Kilovolts
Peak Anode Current e roseaeens cesereessas	90 A	Peak Anode Current e roseaeens cesereessas 90 Amperes
Average Power Output viesinrvevasnssssessanss	2250 W	Average Power Output viesinrvevasnssssessanss 2250 Watts

TUBE TINKER

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and their source documents.

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