

ELECTRONIC TUBE REFERENCE

QK264

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically or frequency-tunable high-power pulsed magnetron designed for radar and related microwave service across its specified tuning range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.7 V / 30 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 7528.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 using liquid cooling with waveguide output.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
er and	2400 W	er and 2400 watts average power. The RK7528/
Heater Current - Preheat oi.viiiississsssassess	30 A	Heater Current - Preheat oi.viiiississsssassess 30 Amperes
Heater Voltage @ 90 A - 600 Sec. vcvsveaseess	3.7 V	Heater Voltage @ 90 A - 600 Sec. vcvsveaseess 3.7 Volts
Current. Pulse Width {(tpc) cevevrceceerearsens	4.3 μs	Current. Pulse Width {(tpc) cevevrceceerearsens. 4.3 usec
Peak Anode Voltage.....o... fereanas ceeveesssses	60 kV	Peak Anode Voltage.....o... fereanas ceeveesssses 60 Kilovolts
Voltage Rise Time S ee e eesaeasares eaneans 0.55-0	65 μs	Voltage Rise Time S ee e eesaeasares eaneans 0.55-0. 65 usec
Peak Anode Current iterncenacnoanss teieess	90 A	Peak Anode Current iterncenacnoanss teieess 90 Amperes
Average Power Output ttt eeritreoneennnnas	2650 W	Average Power Output ttt eeritreoneennnnas 2650 Watts

TUBE TINKER

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