

ELECTRONIC TUBE REFERENCE

QK172

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency high-power pulsed magnetron designed for radar and related short-pulse microwave service in its specified operating band.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 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.
Section 1 extracted from 6959.pdf.

Fixed-frequency pulsed magnetron oscillator for radar service, operating near 9.3 GHz with nominal 500 kW peak output and forced-air cooling.

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
gion of	9330 MHz	gion of 9330 to 8420 megacycles with a nominal peak T
Peak anode voltage	33 kV	Peak anode voltage 33 kv 33 kv
Heater current surges in excess of	55 A	Heater current surges in excess of 55 amps cannot it will be necessary to preheat the tube again at
low as	100 V	low as 100 volts. This leakage current may