

ELECTRONIC TUBE REFERENCE

QK630

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Forced-liquid-cooled high-power pulsed magnetron oscillator producing approximately 550 kW peak microwave output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.73 V / 24 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	35000 V
MAXIMUM CATHODE CURRENT	40 A
Published electrical limits and characteristics promoted from the approved source; identical repeated sections compressed where applicable.	

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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
HeaterVoltageNominal	2.73 V	Nominal
HeaterCurrentNominal	24 A	Nominal
Maximum Plate Voltage	35000 V	—
Maximum Cathode Current	40 A	—
PulseService	1	High-power pulsed oscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakRFOutputPowerMinimum	550000 W	Pulse
AverageRFOutputPower	1320 W	—