ELECTRONIC TUBE REFERENCE

QK338

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	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	76000 V
MAXIMUM CATHODE CURRENT	135 A

Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.

Printed co-designation for the RK6410 fixed-frequency 5 MW pulsed magnetron.

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

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	**2750–2860 MHz**	Published operating or tuning range

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
RF power output	**5000000 W**	Published nominal or minimum output
Maximum pulse duration	**2.2 us**	Published pulse limit
Maximum duty cycle	**0.001 fraction**	Published duty-cycle limit

Tube Tinker

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