



ELECTRONIC TUBE REFERENCE

5586

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Mechanically tunable high-power pulsed magnetron designed for radar and related short-pulse microwave service over its specified tuning range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Unpackaged coaxial magnetron	BASE PINS	—
NOMINAL HEATER	16 V / 2.8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	30000 V
MAXIMUM PLATE DISSIPATION	2000000 W
MAXIMUM CATHODE CURRENT	70 A
<i>Promoted only where the locked section schema has a direct semantic match; device-specific thyatron, magnetron, transmitting-tube, ignitron, and broadband data are retained in TUBE_SECTION_PARAMETER.</i>	

Mechanically tunable pulsed magnetron covering approximately 2700–2900 MHz with 800 kW minimum pulsed output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1958 AMPEREX INDUSTRIAL

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	2700 MHz	PulsedMagnetron;MechanicalTuning
Frequency maximum	2900 MHz	PulsedMagnetron;MechanicalTuning

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulsed power output minimum	800 kW	PulsedMagnetron
Average power output approximately	400 W	PulsedMagnetron
Pulsed plate voltage	30 kV	PulsedMagnetron
Pulsed plate current	70 A	PulsedMagnetron
Average plate current	35 mA	PulsedMagnetron
Magnetic field	2700 G	PulsedMagnetron
Duty factor	0.0005	PulsedMagnetron

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tuning method	Mechanical	PulsedMagnetron



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS 0-D

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	2700–2900 Mc/s	—
Minimum life	500 h	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak anode voltage	30 kV	—
Maximum peak anode current	70 A	—
Maximum peak input power	2000 kW	—
Maximum average input power	1200 W	—
Maximum pulse duration	2.5 usec	—
Maximum duty factor	0.001	—
Operating peak anode voltage	27-32 kV	—
Operating peak anode current	70 A	—
Output peak power	800 kW	—
Average output power	400 W	—
Magnetic field strength	2700 Gauss	—

TUBE TINKER

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and their source documents.

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