

ELECTRONIC TUBE REFERENCE

5657

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
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.	

Mechanically tunable pulsed magnetron covering approximately 2900–3100 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	2900 MHz	PulsedMagnetron;MechanicalTuning
Frequency maximum	3100 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

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical data reference	5586	SourceCrossReference