



ELECTRONIC TUBE REFERENCE

2J55

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency pulsed X-band magnetron centered near 9.375 GHz for search and navigation radar.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	16000 V
<i>Amperex pulsed magnetron for radar/high-intensity RF pulse service.</i>	

Fixed-frequency pulsed X-band magnetron centered at 9375 MHz for search and navigation radar.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
CenterFrequency	9375 MHz	XBand

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Anode Current	12 A	Pulsed
Peak Power Output	45 kW	Pulsed



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency	9345–9405 MHz	—
Pulsed RF output power	40 kW	Pulsed
Average RF output power	40 W	Pulsed
Pulsed plate voltage	12 kV	Pulsed
Pulsed plate current	12 A	Pulsed
Average plate current	12 mA	Pulsed

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Magnetic field	Packaged	—
Duty factor	0.001	Pulsed



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
temperature below 100	9 C	temperature below 100 9C is recommended.
temperature below	100 °C	temperature below 100 °C is recommended.

TUBE TINKER

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