



ELECTRONIC TUBE REFERENCE

JP915

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Packaged X-band pulsed magnetron operating around 9.345–9.405 GHz with approximately 18 kW nominal peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	56 W
MAXIMUM CATHODE CURRENT	7 A
<i>Magnetron operating data are preserved in TUBE_SECTION_PARAMETER; SectionType uses Other because no canonical magnetron section type exists.</i>	

Packaged pulsed magnetron operating in the 9345–9405 MHz range with 18 kW nominal 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	9345 MHz	Pulsed
Frequency maximum	9405 MHz	Pulsed
Magnetic field	Packaged	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulsed power output	18 kW	Pulsed
Average power output	3.6 W	Pulsed
Pulsed plate voltage	7.5 kV	Pulsed
Pulsed plate current	6.5 A	Pulsed
Average plate current	1.3 mA	Pulsed
Duty factor	0.0002	Pulsed



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	9345–9405 MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical peak anode voltage	7.2 kV	—
Heating time minimum	3 min	Ambient<0C

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pulse duration	2.5 us	—
Maximum duty factor	0.001	—
Maximum peak anode current	7 A	—
Minimum peak anode current	5 A	—
Maximum average anode current	7 mA	—
Maximum peak input power	56 kW	—
Maximum average input power	56 W	—
Minimum peak output power	15 kW	PulseDuration=0.1us

TUBE TINKER

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