

ELECTRONIC TUBE REFERENCE

JP97D

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Forced-air-cooled packaged magnetron designed for fixed-frequency X-band pulsed microwave service.

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

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	56 W
MAXIMUM CATHODE CURRENT	7 A
Pulsed magnetron; peak anode ratings mapped to closest promoted fields.	

Forced-air-cooled packaged pulsed magnetron for fixed-frequency X-band service. Published ratings, characteristics, operating data, capacitances, microwave/noise data, or gauge-head data were retained according to the physical device and mapped only to compatible locked-schema fields.

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	9210–9270 MHz	—
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	7 kW	PulseDuration=0.1us

TUBE TINKER

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and their source documents.

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