



ELECTRONIC TUBE REFERENCE

4J50

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Forced-air-cooled packaged X-band magnetron for high-power pulsed service around 9.35-9.41 GHz, delivering at least approximately 225 kW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13.75 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron

No fixed ratings recorded.

Magnetron; peak anode voltage typical 20-23 kV; pulse-condition ratings retained as parameters.

A forced-air-cooled packaged magnetron for high-power pulsed microwave service around 9.35-9.41 GHz, delivering at least 225 kW peak output.

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
Operating frequency	9345-9405 MHz	—
Peak anode voltage	20-23 kV	—
Peak anode current	27.5 A	—
Peak output power	min 225 kW	—
Average output power	min 225 W	—
Pulse repetition frequency	1000 Hz	—
Pulse duration	1 us	—

TUBE TINKER

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