



ELECTRONIC TUBE REFERENCE

7090

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Packaged continuous-wave magnetron operating near 2.45 GHz for low-power microwave heating, with approximately 200 watts output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.3 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	1650 V
<i>Magnetron section; canonical SectionType fallback Other.</i>	

A packaged magnetron operating near 2450 Mc/s for continuous-wave microwave heating, with approximately 200 W 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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	2425 Mc/s	—
Frequency maximum	2475 Mc/s	—
Heater starting voltage	5.3 V	—
Heater current	3.5 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CW output power	200 W	—
Anode current	200 mA	—
Anode voltage	1.65 kV	—
gamme	-2475 MHz	PublishedLine: gamme 2425-2475 MHz et capable de fournir une puissance
de sortie continue de	200 watts	PublishedLine: de sortie continue de 200 watts. Le tube est congu pour
couplage une ligne de transmission coaxiale de	50 ohms	PublishedLine: couplage & une ligne de transmission coaxiale de 50 ohms
einer festen Frequenz im Bereich	-2475 MHz	PublishedLine: einer festen Frequenz im Bereich 2425-2475 MHz mit einer
devient alors	120 mA	PublishedLine: devient alors 2,8 A. A I, < 120 mA Vs ne sera pas réduit
el Tg	120 mA	PublishedLine: el Tg > 120 mA muss Vr sofort nach dem Einschalten der
Ia max	220 mA	PublishedLine: Ia = max, 220 mA') tg = max. 125 %
wave output power of approximately	200 watts	PublishedLine: wave output power of approximately 200 watts. The tube has

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fixed frequency f between	2475 Mc/s	PublishedLine: Fixed frequency f = between 2425 and 2475 Mc/s
Fixed frequency T between	2475 Mc/s	PublishedLine: Fixed frequency T= between 2425 and 2475 Mc/s
Frequency fo	2450 Mc/s	PublishedLine: Frequency fo = 2450 Mc/s

TUBE TINKER

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and their source documents.

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