

ELECTRONIC TUBE REFERENCE

7292

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Water-cooled continuous-wave magnetron for industrial microwave generators and ovens near 2.45 GHz, producing approximately 2-2.5 kW sustained RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Magnetron section; canonical SectionType fallback Other.

A water-cooled continuous-wave magnetron for industrial generators and microwave ovens around 2450 Mc/s, with 2-2.5 kW 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 nominal	2450 Mc/s	—
Frequency tolerance	25 Mc/s	—
Heater voltage	5 V	—
Heater current	35 A	—
Anode current Ia	750 mA	PublishedLine: Anode current Ia = 750 mA
sortie de	2.5 kW	PublishedLine: sortie de 2,5 kW, 11 est recommandg de prendre la tension
Pour le fonctionnement sur	2 kW	PublishedLine: Pour le fonctionnement sur 2 kW, l'alimentation a partir
A. OPERATION WITH	2.5 kW	PublishedLine: A. OPERATION WITH 2.5 kW OUTPUT POWER (continued)

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CW output power	2.5 kW	—
Anode voltage	4.6 kV	—
une fre quence fixe de	25 MHz	PublishedLine: une fréquence fixe de 2450 * 25 MHz et peut fournir des
puissances de	2.5 kW	PublishedLine: puissances de 2 qu de 2,5 kW dépendant des taux d'ondes
Frequenz von	25 MHz	PublishedLine: Frequenz von 2450 = 25 MHz und kann, abh&ngig vom Re-
flexionsbereich eine Ausgangsleistung von	2.5 kW	PublishedLine: flexionsbereich, eine Ausgangsleistung von 2 oder 2,5 kW
It operates at a fixed frequency of	25 Mc/s	PublishedLine: It operates at a fixed frequency of 2450 * 25 Mc/s and is

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tinuous wave output power levels of	2 kW	PublishedLine: tinuous wave output power levels of 2 kW and 2.5 kW, these
specified for the	2 kW	PublishedLine: specified for the 2 kW operation
Die ROhre ist fir die Kopplung an ein	50 Ohm	PublishedLine: Die ROhre ist fir die Kopplung an ein 50 Ohm-Koaxialkabel
A OPERATION WITH	2.5 kW	PublishedLine: A, OPERATION WITH 2.5 kW OUTPUT POWER
Output power Wo	2.5 kW	PublishedLine: Output power Wo = 2.5 kW 3)
B. OPERATION WITH	2 kW	PublishedLine: B. OPERATION WITH 2.0 kW QUTPUT POWER
Column A For operation with	2.5 kW	PublishedLine: Column A: For operation with 2.5 kW output power 1)
Column B For operation with	2 kW	PublishedLine: Column B: For operation with 2,0 kW output power
sortie de	2.5 kW	PublishedLine: sortie de 2,5 kW