



ELECTRONIC TUBE REFERENCE

55125

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Continuous-wave magnetron designed for 2.45 GHz microwave-heating service, using water or forced-air cooling according to type.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Water-cooled packaged/unpackaged assembly	BASE PINS	—
NOMINAL HEATER	5.5 V / 66 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	6600 V
MAXIMUM PLATE DISSIPATION	9500 W
MAXIMUM CATHODE CURRENT	2.4 A
<i>CW magnetron anode voltage/current/input ratings mapped to closest promoted fields.</i>	

Water-cooled continuous-wave magnetron for 2.45 GHz microwave-heating applications. Published data were interpreted from the complete supplied Philips datasheet, including ratings, characteristics, operating conditions, and construction notes.

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
Operating frequency	2425–2475 Mc/s	—
Typical mean anode current	1.4 A	—
Typical anode voltage	6.3–6.6 kV	—
Cathode heating time	4 min	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum mean anode current	1.5 A	—
Maximum peak anode current	2.4 A	—
Maximum anode input power	9.5 kW	—
Output power	5 kW	—
Efficiency	57 %	—

TUBE TINKER

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and their source documents.

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