



ELECTRONIC TUBE REFERENCE

5609

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	Packaged magnetron	BASE PINS	—
NOMINAL HEATER	6.3 V / 3.8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	1475 V
MAXIMUM PLATE DISSIPATION	190 W
MAXIMUM CATHODE CURRENT	135 mA
<i>CW magnetron operating anode values mapped to closest promoted fields.</i>	

Forced-air-cooled packaged 2.45 GHz magnetron for continuous-wave microwave heating. 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
Frequency range	2425–2475 MHz	—
Cathode heating time	3 min	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode current	135 mA	—
Maximum anode input power	190 W	—
Typical anode voltage	1475 V	—
Typical anode current	125 mA	—
Output power	85 W	—
Useful anode current range	40–130 mA	—