

ELECTRONIC TUBE REFERENCE

YJ1000

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Packaged fixed-frequency X-band pulsed magnetron designed as a short-pulse microwave oscillator, with kilowatt-class peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Pulsed microwave magnetron

Packaged fixed-frequency pulsed magnetron operating in the X-band microwave region, intended as a pulsed oscillator.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
9190 and	9320 Mc/s	Oscillator
Indirect. Heater voltage V_e	6.3 V	—
Heater current at [1]	6.3 V	—
Heater current at [2]	6.3 V	—
Heater current at [3]	500 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency f = between 9190 and	9320 Mc/s	—
1.5 afp(VSHR=1.5) max	18 Mc/s	—
peak anode current = 34 V_{ap} {lap [1]}	3 A	—
peak anode current = 34 V_{ap} {lap [2]}	3.2-3.6 kV	—
Average input power W_i = max	13 W	—
Rate of rise of anode -2% = max	60 kV	—
Heater voltage V_e	6.3 V	—
Pulse duration T_{imp}	0.1 usec	—
Peak anode voltage V_{ap}	3.4 kV	—
Rate of rise of anode A	50 KV	—
Average anode current I_a	600 pa	—
Peak anode current I_{ap}	3 A	—
Peak output power W_{op}	3 kW	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
standing wave ratio = 1.5 afp(VS#R=1,5)	15 Mc/s	—
»	4 v	—
11	11.1962 A	—
Frequency fo	9245 Mc/s	—
Pulling figure sfy	15 Mc/s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance Cak = max	9 pF	—

TUBE TINKER

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and their source documents.

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