

ELECTRONIC TUBE REFERENCE

4J52A

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency X-band pulsed magnetron with integral magnet, operating around 9.345–9.405 GHz and producing roughly 70–80 kW peak RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	12.6 V / 2.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded. Published ratings and characteristics promoted semantically from the approved source; repeated identical sections compressed where applicable.

Fixed-frequency X-band pulsed magnetron with integral magnet, operating around 9345 to 9405 MHz with roughly 70 to 80 kW peak RF output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Minimum	9345 MHz	—
Frequency Maximum	9405 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak RF Output	80 kW	Representative published condition
Peak Applied Power	270 kW	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating frequency	9375 $\pm$ 25 MHz	—
Peak anode voltage	15 $\pm$ 1 kV	—
Peak anode current	16 A	—
Peak output power	80 kW	—
Average output power	50-80 W	—
Pulse duration	0.35-5 μ s	—

TUBE TINKER

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and their source documents.

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