

ELECTRONIC TUBE REFERENCE

6972

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Amperex pulsed magnetron with published microwave pulse ratings and operating data.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 2.85 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	15000 V
Published ratings and operating data reviewed.	

6972 is listed in the supplied Amperex material as a pulsed magnetron. Published ratings and operating data were captured from the supplied table.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum frequency	9345 MHz	Published Amperex table
Maximum frequency	9405 MHz	Published Amperex table
Duty factor	0.001	Published Amperex table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulsed power output	75 kW	Published Amperex table
Average power output	75 W	Published Amperex table
Pulsed plate voltage	15 kV	Published Amperex table
Pulsed plate current	15 A	Published Amperex table



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 MHz	Nominal
Frequency tolerance	30 MHz	Plus/minus
Peak anode current	18 A	Maximum

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse duration	1.5 us	Maximum
Anode-cathode capacitance	12 pF	Maximum
Peak output power	65 kW	Greater than

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