

ELECTRONIC TUBE REFERENCE

HMI942

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

X-band pulse magnetron for radar-generator service around 9.345-9.405 GHz, providing short-duration high-peak-power microwave output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	5.5 A
Magnetron interaction-space system; RF frequency, output power and pulse/CW limits captured as parameters.	

Pulse magnetron for radar-generator service in the 9345 to 9405 MHz band.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	600 mA	Nominal
PeakAnodeCurrentMinimum	3.5 A	—
PeakAnodeCurrentMaximum	5.5 A	—
PulseInputPowerMaximum	33000 W	—
MaximumPulseDuration	2.5 us	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	9.345–9.405 GHz	Published operating range
RFOutputPower	7000 W	Pulse

TUBE TINKER

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and their source documents.

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