

ELECTRONIC TUBE REFERENCE

HMD242

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

High-power continuous-wave magnetron co-designated with HMD241 for industrial dielectric-heating microwave generators.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM CATHODE CURRENT	900 mA
Magnetron interaction-space system; RF frequency, output power and pulse/CW limits captured as parameters.	

High-power continuous-wave magnetron co-designated on the HMD241/HMD242 sheet for industrial dielectric heating.

SOURCE OPERATING CONDITIONS

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	5 V	Nominal
HeaterCurrentNominal	35 A	Nominal
AverageAnodeCurrentMaximum	900 mA	—
PeakAnodeCurrentMaximum	2.5 A	—
OperatingPeakAnodeVoltage	4800 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyRange	2.335–2.49 GHz	Published operating range
RFOutputPower	2000 W	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker