

ELECTRONIC TUBE REFERENCE

725A

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Forced-air-cooled X-band pulsed magnetron operating approximately 9.345–9.405 GHz and producing more than 40 kW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	6.3 V / 14 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	16000 V
Magnetron section; canonical SectionType fallback Other.	

A forced-air-cooled X-band magnetron for pulsed service at 9345-9405 Mc/s, specified for more than 40 kW peak output.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	9345 Mc/s	—
Frequency maximum	9405 Mc/s	—
Heater voltage	6.3 V	—
Heater current	14 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak anode voltage maximum	16 kV	Pulse
Peak anode current maximum	16 A	Pulse
Peak input power maximum	230 kW	Pulse
Average input power maximum	180 W	—
Pulse duration maximum	2.5 us	—
Peak output power	50 kW	Pulse
sions a une fr quence fixe dans la gamme	9405 MHz	PublishedLine: sions a une fréquence fixe dans la gamme 9345- 9405 MHz
festen Frequenz im Bereich	-9405 MHz	PublishedLine: festen Frequenz im Bereich 9345-9405 MHz, mit einer Impuls-
spitzenleistung Wop	40 kW	PublishedLine: spitzenleistung Wop > 40 kW. Der Magnetron erfordert einen
Vap max	16 kV	PublishedLine: Vap = max, 16 kV
Wip max	230 kW	PublishedLine: Wip = max. 230 kW
B max.	3 Mc/s	PublishedLine: B = max., 3 Mc/s

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

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