

ELECTRONIC TUBE REFERENCE

7028

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Packaged X-band pulsed magnetron oscillator covering approximately 9.345-9.475 GHz with at least 2.5 kW peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Magnetron section; canonical SectionType fallback Other.

A packaged X-band magnetron for pulsed oscillator service at 9345-9475 Mc/s, capable of at least 2.5 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	9475 Mc/s	—
Peak output power minimum	2.5 kW	Pulse
Heater voltage	6.3 V	—
Heater current	500 mA	—
Peak anode voltage minimum	3.2 kV	AtPeakAnodeCurrent3A
Peak anode voltage maximum	3.6 kV	AtPeakAnodeCurrent3A
Input capacitance maximum	9 pF	—
Frequency f between	9475 Mc/s	PublishedLine: Frequency f = between 9345 and 9475 Mc/s
Input capacitance Cak max	9 pF	PublishedLine: Input capacitance Cak = max. 9 pF
ofp (V	18 Mc/s	PublishedLine: ofp (V.8.W.R. = 1,5) = max. 18 Mc/s
Cinp max	9 pF	PublishedLine: Cinp = max. 9 pF
app (V.S.W.R	18 Mc/s	PublishedLine: app (V.S.W.R. = 1,5) = max. 18 Mc/s

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
at a fixed frequency within the range	9475 Mc/s	PublishedLine: at a fixed frequency within the range 9345 to 9475 Mc/s and
sortie de cr te de min	2.5 kW	PublishedLine: sortie de créte de min. 2,5 kW
festen Frequenz im Bereich	9475 MHz	PublishedLine: festen Frequenz im Bereich 9345 - 9475 MHz mit einer

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Impulsspitzenleistung von min	2.5 kW	PublishedLine: Impulsspitzenleistung von min. 2,5 kW¥. Magnetron und
Capacit . Cak max	9 pF	PublishedLine: Capacité . Cak = max, 9 pF
Wip max	10 kW	PublishedLine: Wip = max. 10 kW
gamme de	9475 MHz	PublishedLine: 'gamme de 9345 - 9475 MHz et capable de fournir une puis-
sance de sortie de cr te de	2.5 kW	PublishedLine: sance de sortie de crête de 2,5 kW au min.
Tmpulsspitzenlelstung von min	2.5 kW	PublishedLine: Tmpulsspitzenlelstung von min. 2,5 kW. Magnetron und
rv max	60 kV	PublishedLine: §¥rv = max, 60 kV/isec
afp (V	14 Mc/s	PublishedLine: afp (V.8.W.R, 1-1,5) = 14 Mc/s
spp (V	14 Mc/s	PublishedLine: spp (V.8.W.R. 1-1,5) = 14 Mc/s
Rate of rise ogo ggg Ay - max	60 KV	PublishedLine: Rate of rise ogoflggg Ay - max 60 KV//

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