

ELECTRONIC TUBE REFERENCE

7093

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

High-frequency packaged pulsed magnetron for high-definition short-range radar, delivering tens of kilowatts peak output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 3.9 A	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 high-frequency packaged magnetron for pulsed oscillator service in high-definition short-range radar systems, with tens of kilowatts 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	34512 Mc/s	—
Frequency maximum	35208 Mc/s	—
Peak output power minimum	30 kW	Pulse
Peak anode current	12.5 A	Pulse
Heater voltage	5 V	—
Heater current	3.9 A	—
Cathode heating time minimum	3 min	—
ofp max	40 Mc/s	PublishedLine: ofp = max. 40 Mc/s
afy (V.S.W.R	50 Mc/s	PublishedLine: afy (V.S.W.R. = 1,5) = 35 < 50 Mc/s
Capacit Cgx	6 PF	PublishedLine: Capacité Cgx = 6 PF Gamme 'stable Igp = 6-16 4
Vap(Iap	-13.5 kV	PublishedLine: Vap(Iap= 12,5 A) = 11,5-13,5 kV
Capacit Cak	6 PF	PublishedLine: Capacité Cak = 6 PF Gamme stable Iap = 6~16.4

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
de cre e de	25 kW	PublishedLine: de cre;e de 25 kW au minimum a un courant anodique de crête
auf einer festen Frequenz im Bereich	-35208 MHz	PublishedLine: auf einer festen Frequenz im Bereich 34512-35208 MHz, mit
einer Impulsspitzenleistung von mindestens	25 kW	PublishedLine: einer Impulsspitzenleistung von mindestens 25 kW bel einem
at a fixed frequency within the range	5208 Mc/s	PublishedLine: at a fixed frequency within the range 34512-%5208 Mc/s,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
sortie de cr te de	30 kW	PublishedLine: sortie de crête de 30 kW au minimum a un courant anodique de
aTry max	300 kV	PublishedLine: aTry = max. 300 kV/us
a2y) min	200 kV	PublishedLine: a2y ") _ min. 200 kV/us
aTry max	300 kV	PublishedLine: aTry ~ max. 300 kV/us
av ty min	200 kV	PublishedLine: av 'ty _ min. 200 kV/us
aTry T max	300 kV	PublishedLine: aTry T max. 300 kV/us
Viop	30 kW	PublishedLine: Viop = 40 40 30 kW
rated capacitor of minimum	4000 pF	PublishedLine: rated capacitor of minimum 4000 pF directly across the
used in a removable viewing system shall not exceed	6 pF	PublishedLine: used in a removable viewing system shall not exceed 6 pF.

TUBE TINKER

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