ELECTRONIC TUBE REFERENCE

55032

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

High-power pulsed magnetron oscillator designed for radar and related short-pulse microwave applications at its specified operating frequency.

General characteristics

BASE DESIGNATION	Packaged magnetron	**BASE PINS**	—
NOMINAL HEATER	13.75 V / 3.45 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Magnetron

MAXIMUM PLATE VOLTAGE	23000 V
MAXIMUM PLATE DISSIPATION	635 W
MAXIMUM CATHODE CURRENT	30 A

X-band pulsed magnetron; peak anode quantities mapped to closest promoted fields; pulse-specific limits retained as parameters.

Forced-air-cooled packaged X-band pulsed magnetron in the 9003-9168 MHz range. Published data were interpreted from the complete supplied Philips datasheet, including ratings, characteristics, operating conditions, and construction notes.

SOURCE OPERATING CONDITIONS

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 range	**9003–9168 Mc/s**	—
Typical peak anode voltage	**23 kV**	—
Typical frequency pulling	**17.5 Mc/s**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pulse duration	**1 usec**	—
Maximum peak anode current	**30 A**	ShortPulse
Maximum anode input power	**690 kW**	ShortPulse
Maximum average input power	**635 W**	—
Minimum output power	**225 kW**	PulseDuration=1us
Minimum output power	**90 kW**	PulseDuration=0.25us
Minimum output power	**34 kW**	PulseDuration=0.1us

Tube Tinker

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