



ELECTRONIC TUBE REFERENCE

55395

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

High-power tunable two-cavity klystron with internal feedback, designed for continuous-wave microwave generation from approximately 8.6 to 10 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL	BASE PINS	8
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron	
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	2000 W
MAXIMUM CATHODE CURRENT	200 mA
<i>Klystron resonator/collector voltage, dissipation and beam current mapped to closest promoted fields.</i>	

High-power tunable two-cavity klystron for continuous-wave generation from 8.6 to 10 GHz. Published data were interpreted from the complete supplied Philips datasheet, including ratings, characteristics, operating conditions, and construction notes.

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 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	8600–10000 Mc/s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum resonator and collector voltage	10 kV	—
Maximum beam current	200 mA	—
Maximum resonator and collector dissipation	2 kW	—
Grid voltage range	-250–20 V	—
Operating frequency	8600 Mc/s	Mode1Low
Resonator and collector voltage	5500 V	Mode1Low
Beam current	96 mA	Mode1Low
Output power	40 W	Mode1Low
Operating frequency	9300 Mc/s	Mode1Mid
Resonator and collector voltage	7500 V	Mode1Mid
Beam current	145 mA	Mode1Mid
Output power	95 W	Mode1Mid
Operating frequency	10000 Mc/s	Mode1High
Resonator and collector voltage	9000 V	Mode1High
Beam current	200 mA	Mode1High
Output power	210 W	Mode1High

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating frequency	9300 Mc/s	Mode2
Resonator and collector voltage	4400 V	Mode2
Beam current	76 mA	Mode2
Output power	27 W	Mode2
Operating frequency	9300 Mc/s	Mode3
Resonator and collector voltage	2750 V	Mode3
Beam current	44 mA	Mode3
Output power	6 W	Mode3

TUBE TINKER

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