



ELECTRONIC TUBE REFERENCE

4658

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

RCA C-band klystron for transmitting and industrial microwave service, with published power-output, cooling, and operating data.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.5 V / 7.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron	
MAXIMUM PLATE VOLTAGE	8500 V
MAXIMUM PLATE DISSIPATION	5100 W
MAXIMUM CATHODE CURRENT	600 mA
<i>C-band klystron</i>	

The 4658 is a C-band klystron. The supplied datasheet was processed for heater or filament data, maximum ratings, operating characteristics, capacitances, cooling/service conditions, and power-output data. Condition-specific transmitting ratings are retained in the section-parameter table.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 6 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 6 OF 7

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency Minimum	4.4 GHz	C-band klystron
Frequency Maximum	5 GHz	C-band klystron
Warm-up Time	180 s	C-band klystron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Beam Voltage	8.5 kV	C-band klystron
Maximum DC Beam Current	600 mA	C-band klystron
Typical DC Beam Voltage	7.5 kV	C-band klystron
Typical DC Beam Current	490 mA	C-band klystron
Typical DC Body Current	10 mA	C-band klystron
RF Power Output at 4.4 GHz	1.45 kW	C-band klystron
RF Power Output at 5.0 GHz	1.3 kW	C-band klystron
Efficiency at 4.4 GHz	39 %	C-band klystron