



ELECTRONIC TUBE REFERENCE

8811

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Air-cooled gang-tuned C-band klystron amplifier covering approximately 4.4-5.0 GHz with kilowatt-class continuous-wave output.

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 CATHODE CURRENT	600 mA
<i>C-band CW klystron; high-voltage/microwave radiation warning.</i>	

Air-cooled gang-tuned C-band klystron covering 4.4 to 5.0 GHz with kilowatt-class CW output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Klystron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.5 V	—
Heater/filament current	7.6 A	—
Warmup time minimum	180 s	—
Maximum beam voltage	8.5 kV	CW
Maximum beam current	600 mA	CW
Maximum body current	60 mA	CW
Surge current	25 A	—
Typical beam voltage	8 kV	—
Typical beam current	520 mA	—
RF power output	1.6 kW	4.4GHzHighEfficiency
RF power output	1.45 kW	5.0GHzHighEfficiency
Efficiency	39 %	4.4GHzHighEfficiency
Gain	52 dB	HighGainTune
X-ray and microwave radiation warning	Present	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency minimum	4.4 GHz	—
Frequency maximum	5 GHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—