

The 5681K is a high power triode suitable for industrial and broadcast applications as well as other applications where a 75 kW water cooled anode is desirable. The 5681K uses ceramic as the vacuum envelope for ruggedness and high reliability. At reduced ratings the 5681K is useful up to 88 MHz.

## CHARACTERISTICS

Plate Dissipation (Max.)	75,000 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	1200 Watts
Frequency for Max. rating (CW)	30 MHz
Amplification Factor	25
Filament/Cathode	Thoriated Tungsten
Voltage	12.0 Volts
Current	220 Amps
Capacitance	Grounded Cathode
Input	79 pf
Output	60 pf
Feedthrough	2.4 pf
Capacitance	
Input	pf
Output	pf
Feedthrough	pf
Cooling	Water and Forced Air
Base	Special
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	19.75 in; 50.2 Cm
Diameter	8.03 in; 20.4 Cm
Weight	43 lb; 19.5 kg

Class of Operation	Type of Service	MAXIMUM RATINGS		TYPICAL OPERATION				
		Plate Voltage (Volts)	Plate Current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C	CW oscillator or amplifier	15,000	12	14,000	500	1.6	52	8.5
C	Plate modulated RF amplifier (telephony)	10,000	9.0	10,000	n/a	7.4	2100	57.0

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



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