

4CX20,000C

The 4CX20,000C is recommended for use in audio or RF applications. It features an internal structure having low RF losses, permitting operation at full ratings to 110 MHz. This tube has a gain of 20 dB in FM broadcast service, with power output of 40kW. It is also recommended for RF linear amplifier service. The anode is rated for 20 kW of dissipation and incorporates a highly efficient cooler with ripple fins, which significantly reduces air pressure and flow requirements and produces a low acoustical noise.



CHARACTERISTICS

Plate Dissipation (Max.)	20,000 Watts
Screen Dissipation (Max.)	450 Watts
Grid Dissipation (Max.)	200 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	6.7
Filament/Cathode	Thoriated Tungsten
Voltage	10.0 Volts
Current	140 Amps
Capacitance	Grounded Cathode
Input	193 pf
Output	22.4 pf
Feedthrough	0.6 pf
Capacitance	Grounded Grid
Input	90 pf
Output	22.9 pf
Feedthrough	.08 pf
Cooling	Forced Air
Base	Special, Coaxial
Air Socket	SK-360
Air Chimney	SK-326
Boiler	---
Length	9.84 in; 249.90 mm
Diameter	8.86 in; 225.04 mm
Weight	20.0 lb; 9.06 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	RF power amplifier	12,500	5.0	9,000	900	4.01	26	28.2
C	RF power amplifier	12,500	5.0	11,600	1,000	4.35	400	40.0
AB1	AF amplifier or modulator	12,500	6.0	7,800	1,500	9.20	---	44.0

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.



For information on this and other CPI products, visit our website at: www.cpii.com, or contact: CPI MPP Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com