

# 3CX20,000A3

The 3CX20,000A3 is a forced air cooled, ceramic/metal, medium-mu power triode designed primarily for use in industrial radio frequency heating services. Input of 84 kW is permissible up to 90 MHz. Plentiful reserve emission is available from its 1600 watt filament. The grid structure is rated at 800 watts, making this tube an excellent choice for industrial service.



## CHARACTERISTICS

Plate Dissipation (Max.)	20,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	750 Watts
Frequency for Max. rating (CW)	90 MHz
Amplification Factor	20
Filament/Cathode	Thoriated Tungsten
Voltage	10.0 Volts
Current	160 Amps
Capacitance	Grounded Cathode
Input	70.0 pf
Output	2.3 pf
Feedthrough	43 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Coaxial
Air Socket	SK-1300
Air Chimney	---
Boiler	---
Length	10.00 in; 254.0 mm
Diameter	8.00 in; 203.0 mm
Weight	19.5 oz; 8.8 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	Grid driven RF amplifier	12,000	8.0	10,000	---	7.9	960	64.0
C	Grid driven RF amplifier plate modulated	6,500	5.5	6,500	---	5.0	1,500	27.5
AB	Grid driven RF linear amplifier	8,000	8.0	7,500	---	7.4	400	40.0
AB	Grid driven AF amplifier or modulator	8,000	8.0	7,500	---	14.8	800	80.0

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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