Communications & Power Industries

5CX3000A/8966

The 5CX3000A/8966 is designed for use as a Class AB1 linear amplifier in audio or radio frequency applications. Its characteristic low intermodulation distortion makes it especially suitable for single sideband service.



CHARACTERISTICS

Plate Dissipation (Max.)	4,000 Watts
Screen Dissipation (Max.)	175 Watts
Grid Dissipation (Max.)	50 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	5.5
Filament/Cathode	Thoriated Tungsten
Voltage	9.0 Volts
Current	41.5 Amps
Capacitance	Grounded Cathode
Input	135.0 pf
Output	21.0 pf
Feedthrough	0.4 pf
Capacitance	Grounded Grid
Input	61.0 pf
Output	21.0 pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Special Ring/ Breechblock
Air Socket	SK-1420
Air Chimney	SK-1426
Boiler	---
Length	6.84 in; 173.70 mm
Diameter	4.63 in; 117.60 mm
Weight	5.5 lb; 2.5 kg

		MAXIMUM RATINGS		TYPICAL OPERATION				
Class of Operation	Type of Service	Plate Voltage (Volts)	Plate Current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C	RF amplifier at 30 MHz	7,000	2.0	6,800	500	1.6	52	8.5
AB1	RF linear amplifier	7,000	2.0	6,000	850	1.4	---	5.5
AB1	AF amplifier or modulator	7,000	2.0	6,000	850	2.9	---	11.0

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.

ISO 9001

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
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