

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 |

| 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 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.



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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