

# 4CX20,000D/9015

The EIMAC 4CX20,000D/9015 is a ceramic/metal VHF power tetrode intended for use as a RF amplifier up to 110 MHz. It is particularly recommended for use in the 88-108 MHz FM band. It features an electromechanical structure which provides high RF operating efficiency and low RF losses. The 4CX20,000D has a gain of up to 20 dB in FM broadcast service. The anode is rated for 20 kilowatts of dissipation with forced-air cooling and incorporates a highly efficient cooler of new design, which significantly reduces air pressure and flow requirements and produces low acoustical noise.



## CHARACTERISTICS

|                                |                    |
|--------------------------------|--------------------|
| Plate Dissipation (Max.)       | 20,000 Watts       |
| Screen Dissipation (Max.)      | 300 Watts          |
| Grid Dissipation (Max.)        | 200 Watts          |
| Frequency for Max. rating (CW) | 110 MHz            |
| Amplification Factor           | 9.5                |
| Filament/Cathode               | Thoriated Tungsten |
| Voltage                        | 7.5 Volts          |
| Current                        | 145 Amps           |
| Capacitance                    | Grounded Cathode   |
| Input                          | 181 pf             |
| Output                         | 18.7 pf            |
| Feedthrough                    | 0.5 pf             |
| Capacitance                    | Grounded Grid      |
| Input                          | 76 pf              |
| Output                         | 19.2 pf            |
| Feedthrough                    | .05 pf             |
| Cooling                        | Forced Air         |
| Base                           | Special, Coaxial   |
| Air Socket                     | SK-360             |
| Air Chimney                    | SK-336             |
| Boiler                         | ---                |
| Length                         | 9.51 in; 24.17 cm  |
| Diameter                       | 7.85 in; 19.95 cm  |
| Weight                         | 14.8 lb; 6.7 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                  | 11,600                | 1,300                  | 3.7                  | 500                 | 35.5                     |

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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