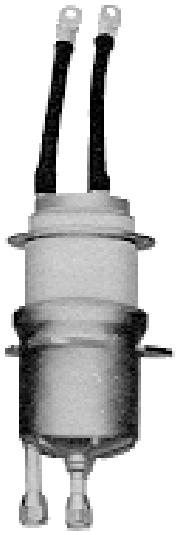
Communications & Power Industries

# 3CW30,000H3

The 3CW30,000H3 is a water cooled, ceramic/metal, medium-mu power triode designed primarily for use in industrial radio frequency heating services. Its water cooled anode is conservatively rated at 30 kW of plate dissipation with low water flow and pressure drop. Input of 60 kW is permissible up to 90 MHz. Plentiful reserve emission is available from its 1000 watt filament. The grid structure is rated at 500 watts, making this tube an excellent choice for industrial service.



## CHARACTERISTICS

| | |
|---|---|
| Plate Dissipation (Max.) | 30,000 Watts |
| Screen Dissipation (Max.) | --- |
| Grid Dissipation (Max.) | 500 Watts |
| Frequency for Max. rating (CW) | 90 MHz |
| Amplification Factor | 20 |
| Filament/Cathode | Thoriated Tungsten |
| Voltage | 6.3 Volts |
| Current | 160 Amps |
| Capacitance | Grounded Cathode |
| Input | 53.0 pf |
| Output | 1.4 pf |
| Feedthrough | 34 pf |
| Capacitance | --- |
| Input | --- pf |
| Output | --- pf |
| Feedthrough | --- pf |
| Cooling | Water and Forced Air |
| Base | Flexible Filament Leads |
| Air Socket | --- |
| Air Chimney | --- |
| Boiler | --- |
| Length | 20.60 in; 523.24 mm |
| Diameter | 6.75 in; 171.40 mm |
| Weight | 12.0 lb; 5.5 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 Industrial oscillator | 12,000 | 6.0 | 10,000 | --- | 6.0 | 365 | 42.0 |

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 Operations, 607 Hansen Way, Palo Alto, CA 94303
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