

The 8873 is a compact high-mu power triode intended for use in zero bias Class B or AB amplifiers in audio or radio frequency applications, but may also be used in Class C service or as a pulse modulator or regulator. The 8873 is designed for conduction cooling and is nominally rated for 200 watts of anode dissipation. A beryllium oxide thermal link is available to insulate the anode from the heat sink while allowing for heat conduction from the anode to the sink. Operation with zero bias simplifies associated circuitry by eliminating the bias supply. In addition, grounded grid operation is attractive since a power gain as high as twenty can be obtained.

## CHARACTERISTICS

|                                |                   |
|--------------------------------|-------------------|
| Plate Dissipation (Max.)       | 200 Watts         |
| Screen Dissipation (Max.)      | N/A Watts         |
| Grid Dissipation (Max.)        | 5 Watts           |
| Frequency for Max. rating (CW) | 500 MHz           |
| Amplification Factor           | 240               |
| Filament/Cathode               | Oxide Coated      |
| Voltage                        | 6.3 Volts         |
| Current                        | 3.0 Amps          |
| Capacitance                    | Grounded Grid     |
| Input                          | 20.5 pf           |
| Output                         | 6.0 pf            |
| Feedthrough                    | .03 pf            |
| Capacitance                    | N/A               |
| Input                          | pf                |
| Output                         | pf                |
| Feedthrough                    | pf                |
| Cooling                        | Conduction        |
| Base                           | 11 Pin w/Ring     |
| Air Socket                     | SK-1900           |
| Air Chimney                    | N/A               |
| Boiler                         | N/A               |
| Length                         | 2.14 in; 54.41 mm |
| Diameter                       | 1.64 in; 41.66 mm |
| Weight                         | 4.0 oz; 113 gm    |

| 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) |
| AB2                | Cathode driven RF linear amplifier at 30 MHz  | 2,200                 | 0.35                 | 2,000                 | ---                    | 0.50                 | 26                  | 0.587                    |
| AB2                | Cathode driven RF linear amplifier at 150 MHz | 2,200                 | 0.35                 | 2,000                 | ---                    | 0.40                 | 17.5                | 0.526                    |
| AB2                | Cathode driven RF linear amplifier at 432 MHz | 2,200                 | 0.35                 | 2,000                 | ---                    | 0.50                 | 27                  | 0.505                    |

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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**TELEPHONE:** 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** [powergrid@cpii.com](mailto:powergrid@cpii.com)