

# Jenerator Electronic

# CX1159 Deuterium Thyatron

The data to be read in conjunction with the Hydrogen Thyatron Preamble.

## ABRIDGED DATA

Deuterium-filled tetrode thyatron, featuring low jitter and low anode delay time drift. Suitable for use at high pulse repetition rates, in parallel for switching higher powers, or for switching long pulses. A reservoir operating from the cathode heater supply is incorporated.

Peak forward anode voltage . . . . .33 kVmax  
Peak anode current (see page 2) . 1000 A max  
Average anode current . . . . . 1.25 A max  
Anode heating factor . . . . .14x10<sup>9</sup>VApps max  
Peak output power . . . . .16.5 MW max

## GENERAL

### Electrical

Cathode (connected internally to mid-point of heater) . . . . . oxide coated  
Heater voltage . . . . . 6.3+ 5% V  
Heater current . . . . . 22 A  
Tube heating time (minimum) . . 5.0 min  
Inter-electrode capacitances (approximate):  
anode to grid 2 (grid 1 and cathode not connected) . . . . . 13 pF  
anode to grid 1 (grid 2 and cathode not connected) . . . . .7.5 pF  
anode to cathode (grid 1 and grid 2 not connected) . . . . . 26 pF

### Mechanical

Overall length . . .317.5 mm (12.500 inches) max  
Overall diameter . . . 84.12 mm (3.312 inches) max  
Net weight . . . . . 0.7kg(1.5 pounds) approx  
Mounting position . . . . . any  
Base . . . . . pinspacing as B5F;  
metal shell with micalex insert  
Base adaptors . . . . . seepage 5  
Top cap . . . . . BS448-CT3  
CX1159 is also available with a flange base and flying leads as type CX1551.

