

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

ABRIDGED DATA

Hydrogen-filled, flange mounted tetrode thyatron featuring low jitter and low anode delay time drift. It is designed for applications requiring high rate of rise of current such as switching energy into pulsed gas lasers. It has a rugged internally connected reservoir and an internal X-ray shield to minimise X-ray emission from the region of the anode.

Peak forward anode voltage	35	kV max
Peak anode current	5.0	kA max
Average anode current	0.6	A max
Rate of rise of current	50	kA/μs max
Pulse repetition rate	50	pps max

GENERAL

Electrical

Cathode (connected internally to one end of heater)	oxide coated
Cathode heater voltage (see note 1)	6.3 ± 5% V
Cathode heater current	12.5 A
Tube heating time (minimum)	5.0 min

Mechanical

Seated height	230.2 mm (9.062 inches) max
Clearance required below mounting flange	31.75 mm (1.250 inches) min
Overall diameter (mounting flange)	88.9 mm (3.500 inches) nom
Net weight	450 g (1 pound) approx
Mounting position (see note 2)	any
Tube connections	see outline
Top cap connector (see note 3)	MA359 or MA360A

Cooling (see note 4) natural, forced-air or liquid

PULSE LASER SERVICE

MAXIMUM AND MINIMUM RATINGS (Absolute values)

	Min	Max	
Anode			
Peak forward anode voltage (see note 5)	-	35	kV
Peak inverse anode voltage (see note 6)	-	25	kV
Peak anode current	-	5.0	kA
Average anode current	-	0.6	A
Rate of rise of anode current (see note 7)	-	50	kA/μs
Pulse repetition rate	-	50	pps

