



Thyratron Type FX219

General. The FX219 is a hydrogen filled thyratron primarily designed for pulse operation at high repetition frequencies.

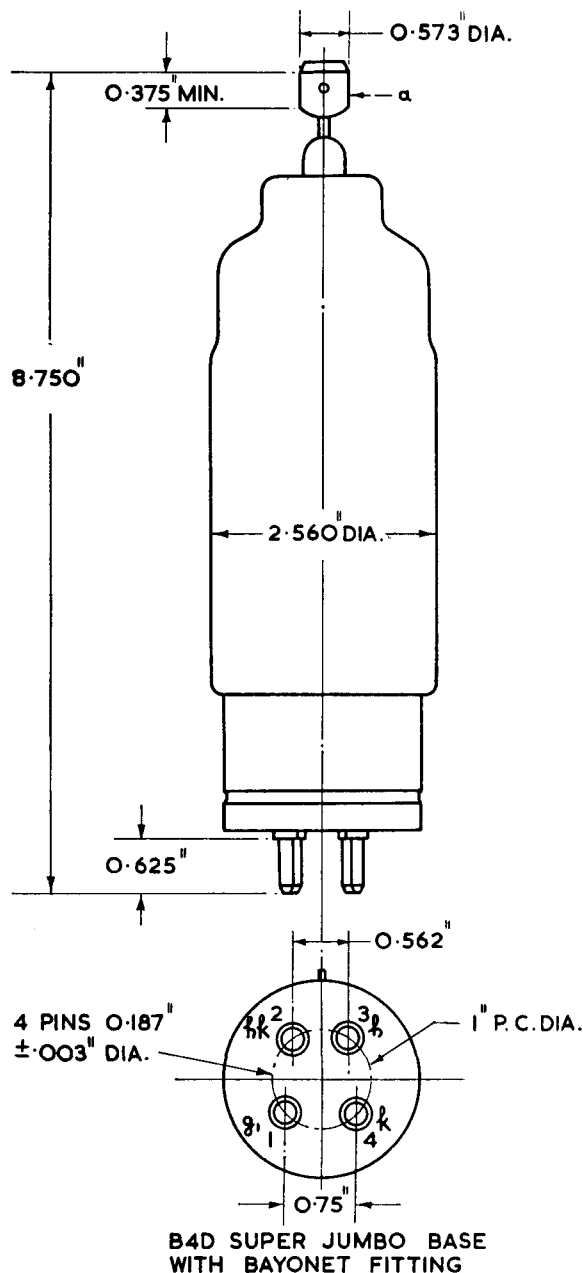
APPROXIMATE DATA

V_h	6.3 (± 0.5) V
I_h	10.6 A
t_{hk}	5 Minutes
V_a (pk) (max)	16.0 kV
PIV_a (max) (a)	16.0 kV
PIV_a (min)	5% of V_a (pk)
I_a (pk) (max)	325 A
I_a (mean) (max)	200 mA
PRF	See Note (b)
PIV_{gl} (max)	200 V
T_{amb}	-50 to +90° C
$\frac{Si}{St}$ (max)	1,500 A/ μ sec
V_{gl} (dr) (c)	
(i) V_{gl} (pk) (min)	200 V
(ii) t (rise) (max)	0.5 μ sec
(iii) t_p (min) measured at 50 V min. amplitude	2.0 μ sec
(iv) Z_{gl} (dr) (max)	500 Ω

NOTES

- In pulse operation, the peak inverse voltage exclusive of a spike of 0.05 μ sec. duration shall not exceed 5 kV during the 25 μ sec. immediately following the pulse.
- Pulse repetition frequency, peak voltage and peak current are connected by the relationship.

$$PRF \times I_{pk} \times V_{pk} = 3.2 \times 10^9.$$
- Measured at tube socket with thyratron grid disconnected.
- The thyratron must be kept away from stray fields which could ionise the gas.
- Air cooling of the bulb is not permitted.
- Clamping must be by the base and/or bulb in the area up to 4 $\frac{1}{4}$ in. above the top of the base, only.
- The thyratron may be mounted in any position.



MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED

Head Office: Marconi House, Chelmsford, England. Telephone: Chelmsford 3221. Telegraphic Address: Expanse, Chelmsford



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