



ELECTRONIC TUBE REFERENCE

7322

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Ceramic 12.5-megawatt hydrogen thyatron for very-high-power pulse service. Fast gas discharge switches extreme pulse energy in modulator systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 13 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	25000 V
MAXIMUM CATHODE CURRENT	1000 A
<i>Thyatron pulse ratings promoted where semantically compatible; trigger, delay, jitter, reservoir and current-rate data retained as parameters.</i>	

The ITT/Kuthe 7322 is a ceramic 12.5-megawatt hydrogen thyatron for very-high-power pulse service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1962 ITT

Section 1 · Thyatron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	4 A-22 A	—
Heater voltage nominal	6.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	5 min	—
Maximum peak forward anode voltage	25000 V	—
Maximum peak inverse anode voltage	25000 V	—
Maximum peak anode current	1000 A	—
Maximum average anode current	1.5 A	—
Maximum RMS anode current	36 A	—
Maximum anode current rate of rise	5000 A/us	—
Maximum peak inverse trigger voltage	650 V	—
Maximum anode delay time	0.5 us	—
Maximum anode delay-time drift	0.15 us	—
Initial maximum time jitter	0.005 us	—