

ELECTRONIC TUBE REFERENCE

5958

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Compact hydrogen thyatron for airborne radar pulse modulators. Its small construction and rapid gas switching suit aircraft pulse-power equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM CATHODE CURRENT	35 A
Thyatron pulse ratings promoted where semantically compatible; trigger, delay, jitter, reservoir and current-rate data retained as parameters.	

The ITT/Kuthe 5958 is a compact hydrogen thyatron for airborne radar pulse modulators.

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	2 A–2.5 A	—
Heater voltage nominal	6.3 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heating time	2 min	—
Maximum peak forward anode voltage	8000 V	—
Maximum peak inverse anode voltage	8000 V	—
Maximum peak anode current	35 A	—
Maximum average anode current	45 mA	—
Maximum RMS anode current	1.25 A	—
Maximum anode current rate of rise	1200 A/us	—
Maximum peak inverse trigger voltage	200 V	—
Maximum anode delay time	0.6 us	—
Maximum anode delay-time drift	0.15 us	—
Initial maximum time jitter	0.03 us	—