

ELECTRONIC TUBE REFERENCE

5959

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Companion compact hydrogen thyatron for airborne radar pulse modulators, providing rapid controlled discharge in aircraft pulse-power systems.

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 5959 is a companion compact hydrogen thyatron for airborne radar pulse modulators.

SOURCE OPERATING CONDITIONS

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	—