

ELECTRONIC TUBE REFERENCE

GL8559

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
THYRATRON

Ruggedized hydrogen thyatron electrically equivalent to GL7390 but strengthened for severe shock and vibration.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	33000 V
MAXIMUM CATHODE CURRENT	4 A
Hydrogen thyatron. Supplied GL8559 sheet states it is electrically the same as GL7390 except for shock/vibration ratings; GL7390 peak/average switching ratings are retained as referenced characteristics.	

Ruggedized hydrogen thyatron electrically equivalent to GL7390 except for enhanced shock and vibration ratings.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Thyatron

CROSSREFERENCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrical cross-reference	GL7390	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Device technology	Hydrogen thyatron	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak anode voltage	33000 V	Pulse
Average anode current	4 A	—
Peak anode current	2000 A	Pulse
Vertical shock intensity	80 g	—
Vertical shock duration	11 ms	—
Horizontal shock intensity	60 g	—
Horizontal shock duration	11 ms	—
Vertical vibration frequency range	10 to 55 Hz	—
Vertical vibration total displacement	0.06 in	—
Horizontal vibration frequency range	10 to 55 Hz	—
Horizontal vibration total displacement	0.06 in	—
Shock specification	MIL-STD-202B Method 205B	—
Vibration specification	MIL-STD-202B Method 201A	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation factor	30000000 W*us	Pulse

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-power radar pulse modulator switching	—