



ELECTRONIC TUBE REFERENCE

7085

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power water-cooled triode for industrial induction/dielectric heating, broadcast RF service, and AF modulation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 170 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	12500 V
MAXIMUM PLATE DISSIPATION	22500 W
<i>Absolute plate-voltage limit and published anode dissipation promoted; remaining high-power operating ratings retained as parameters because the text layer is sparse in the wide table.</i>	

The GL-7085 is a high-power triode for induction and dielectric heating and broadcast use, with a thoriated-tungsten filament and water-cooled anode; it is rated for operation into the HF/VHF range.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Signal Plate Input	45 kW	ClassB
Filament Starting Current Maximum	800 A	—
Water Flow Minimum for Rated Dissipation	12 gal/min	—
Maximum Frequency at Full Ratings	25 MHz	—

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