

ELECTRONIC TUBE REFERENCE

6228

Specialized - Ignitron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

IGNITRONPOWERSWITCH

Water-cooled mercury-pool ignitron for high-power electronic frequency changers, intermittent rectifiers, capacitor-discharge circuits, and DC short-circuit switching.

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 IgnitronPowerSwitch	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	150 A
PEAK FORWARD CURRENT	900 A
Special-purpose data not represented by fixed promoted fields are preserved in TUBE_SECTION_PARAMETER. Ignitron/mercury-pool data semantically matching rectifier inverse-voltage and current fields were promoted; remaining grid, ignitor, auxiliary-anode, thermal, and fault ratings are parameters.	

The GL-6228/506 is a sealed stainless-steel-jacketed, water-cooled mercury-pool ignitron intended primarily for high-power electronic frequency changers, with additional intermittent-rectifier, capacitor-discharge, and DC short-circuiting-switch service.

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 · IgnitronPowerSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The tube	18 C	The tube 18 also designed for use in intermittent-rectifier service, capacitor-dis-
Water Temperature Rlse	4 C	The tube 18 also designed for use in intermittent-rectifier service, capacitor-dis-
Pressure Drop at	5 gal/min	The tube 18 also designed for use in intermittent-rectifier service, capacitor-dis-
Inlet Water Temperature minimum	35 C	The tube 18 also designed for use in intermittent-rectifier service, capacitor-dis-
Water Flow minimum	5 gal/min	The tube 18 also designed for use in intermittent-rectifier service, capacitor-dis-
Inverse	20000 V	Power-Rectifier Service Minimum Ma ximum
Forward	20000 V	Power-Rectifier Service Minimum Ma ximum
ASA (See ASA Standards	2.103 C	Power-Rectifier Service Minimum Max Lmum
Peak	900 A	Power-Rectifier Service Minimum Max Lmum
Fault	6000 A	Power-Rectifier Service Minimum Max Lmum
Forward	5 A	Power-Rectifier Service Minimum Max Lmum
Inverae	400 mA	Power-Rectifier Service Minimum Max Lmum
Inverse	200 mA	Power-Rectifier Service Minimum Max Lmum
Forward	200 V	Power-Rectifier Service Minimum Max Lmum
Inverse	25 V	Power-Rectifier Service Minimum Max Lmum
Forward	20 A	Power-Rectifier Service Minimum Max Lmum
Inverse	100 A	Power-Rectifier Service Minimum Max Lmum
Average	5 A	Power-Rectifier Service Minimum Max Lmum
RMS	10 A	Power-Rectifier Service Minimum Max Lmum
Inverse	20000 V	Power-Rectifier Service Minimum Max Lmum

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward	20000 V	Power-Rectifier Service Minimum Max Lmum
Peak	600 A	Power-Rectifier Service Minimum Max Lmum
Average	200 A	Power-Rectifier Service Minimum Max Lmum
Forward	500 V	Power-Rectifier Service Minimum Max Lmum
Inverse	200 V	Power-Rectifier Service Minimum Max Lmum
Inverse	100 mA	Power-Rectifier Service Minimum Max Lmum
Peak	1500 A	Power-Rectifier Service Minimum Max Lmum
Average	150 A	Power-Rectifier Service Minimum Max Lmum
Averaging Time	0.15 C	Power-Rectifier Service Minimum Max Lmum
RMS	500 A	Power-Rectifier Service Minimum Max Lmum
Peak	2000 A	Power-Rectifier Service Minimum Max Lmum
Fault	2000 A	Power-Rectifier Service Minimum Max Lmum
Above	60 C	Power-Rectifier Service Minimum Max Lmum
Peak	20000 V	Power-Rectifier Service Minimum Max Lmum
Forward	100 V	Power-Rectifier Service Minimum Max Lmum
Peak	6000 A	Power-Rectifier Service Minimum Max Lmum
Average	90 A	Power-Rectifier Service Minimum Max Lmum
Averaging Time	10 s	Power-Rectifier Service Minimum Max Lmum
Jonization Time	10 us	Power-Rectifier Service Minimum Max Lmum
Negative Voltage	5 V	Power-Rectifier Service Minimum Max Lmum

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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