

-PRODUCT INFORMATION -

Planar Triode

Y-1692

Development Type *

The Y-1692 is a triode of ceramic-and-metal planar construction intended for use as a CW amplifier or oscillator at frequencies up to 2500 megacycles. The Y-1692 is specifically designed for lower voltage-higher current applications.

CHARACTERISTICS AND TYPICAL OPERATION

AVERAGE CHARACTERISTICS				Test Conditions				
				Ef	Eb	lb	RL	Rk
<u>Minimum</u>	Bogey	<u>Maximum</u>	Units	V	V	Ma	Ohms	Ohms
Heater Voltage, AC or DC ● 6.0	6.3	6.6	Volts	_	_		_	
Heater Current	1.25		Amperes	6.3				
Plate Current	80		Milliamperes	6.3	325			33
Amplification Factor	80		·	6.3	325			33
Transconductance	66000		Micromhos	6.3	325			33
Grid Voltage, Cutoff	§		Volts					
Direct Interelectrode Capacitances ♦								
Grid to Plate: (g to p)	4.25		pf					
Input; g to (h+k)	10.5		pf ·					
Output: p to (h+k) ===	0.062		pf					
Cathode Heating Time			Seconds					

CW AMPLIFIER SERVICE

Frequency	Megahertz
DC Plate Voltage	Volts
Grid Bias7.2	Volts
Plate Current 200	Milliamperes
Power Input	Watts
Power Output	Watts

NOTES

- Both electrical and mechanical characteristics of development types are subject to change; therefore it is recommended that designers consult their General Electric field representative before designing equipment around developmental types.
- The equipment designer should design the equipment so that heater voltage is centered at the specified bogey value, with heater supply variations restricted to maintain heater voltage within the specified tolerance.
- ♦ Measured at 450 KHz using a grounded adapter that provides shielding between external terminals of tube.
- § To be determined.



ABSOLUTE-MAXIMUM RATINGS

CW OSCILLATOR OR AMPLIFIER SERVICE

Plate Voltage	Volts
	Watts
Average Cathode Current	Milliamperes
Average Grid Current	Milliamperes
Envelope Temperature at Hottest Point	∘C
Temperature Differential Between Two Adjacent Electrodes	°C
Mechanical Vibration (20-2000 Hz Sinusoidal)	G Peak

Absolute-Maximum ratings are limiting values of operating and environmental conditions applicable to any electron device of a specified type as defined by its published data and should not be exceeded under the worst probable conditions.

The device manufacturer chooses these values to provide acceptable serviceability of the device, making no allowance for equipment variations, environmental variations, and the effects of changes in operating conditions due to variations in the characteristics of the device under consideration and

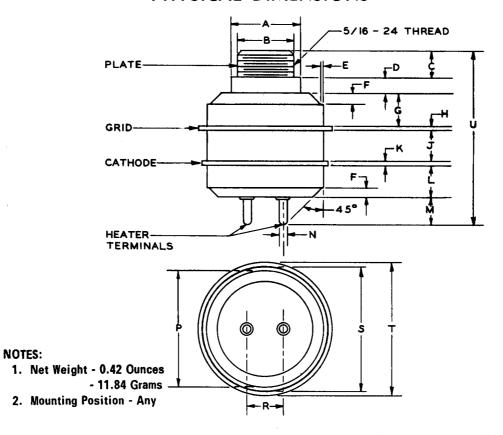
of all other electron devices in the equipment.

The equipment manufacturer should design so that initially and throughout life no absolute-maximum value for the intended service is exceeded with any device under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, environmental conditions, and variations in the characteristics of the device under consideration and of all other electron devices in the equipment.

NOTES

- With adequate heat sink attached to threaded plate stud.
- ▲ For specific recommendations concerning higher temperature operation, contact your General Electric sales representative.
- $\ensuremath{\square}$ This assumes no thermal heat sinking to any insulator.

PHYSICAL DIMENSIONS



Ref.	INCHES			MILLIMETERS			
	Min.	Nom.	Max.	Min.	Nom.	Max.	
Α	0.387	0.390	0.393	9.830	9.906	9.982	
В			0.311			7.899	
С	0.140	0.150	0.160	3.556	3.810	4.064	
D	0.098	0.103	0.108	2.489	2.616	2.743	
E		0.005			0.127		
F	0.040	0.050	0.060	1.016	1.270	1.524	
G	0.182	0.187	0.192	4.623	4.750	4.877	
Н	0.025	0.028	0.031	0.635	0.711	0.787	
J	0.169	0.174	0.179	4.293	4.420	4.547	
K	0.025	0.028	0.031	0.635	0.711	0.787	
L	0.170	0.175	0.180	4.318	4.445	4.572	
M	0.170	0.175	0.180	4.318	4.445	4.572	
N	0.047	0.050	0.053	1.194	1.270	1.346	
P	0.635	0.650	0.665	16.13	16.51	16.89	
R	0.186	0.200	0.214	4.724	5.080	5.436	
S	0.698	0.703	0.708	17.73	17.86	17.98	
T	0.748	0.753	0.758	19.00	19.13	19.25	
U	0.979	1.020	1.061	24.87	25.91	26.95	

TUBE PRODUCTS DEPARTMENT



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