

8168/4CX1000A

Beam Power Tube

FORCED-AIR COOLED

GENERAL DATA

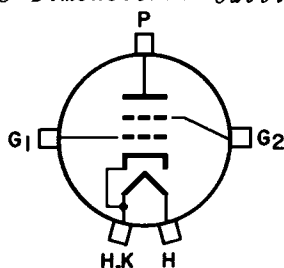
Electrical:

	Min.	Av.	Max.	
Heater, for Unipotential				
Cathode:				
Voltage (AC or DC)	—	$6 \pm 5\%$	—	volts
Current at 6 volts. . . .	9.5	—	11.5	amp
Heating Time.	3	—	—	minutes
Transconductance.	—	37000	—	μmhos
Direct Interelectrode				
Capacitances (Approx.) ^a :				
Grid No.1 to plate. . . .	—	—	0.02	pf
Grid No.1 to grid No.2, cathode, and heater . .	77	—	90	pf
Plate to grid No.2, cathode, and heater . .	11	—	13	pf

Mechanical:

Operating Position.	Any
Maximum Overall Length.	4.8"
Maximum Diameter.	3.365"
Weight (Approx.).	27 oz
Terminal Diagram (See <i>Dimensional Outline</i>):	

P—Plate
G₁—Grid No.1
G₂—Grid No.2



K—Cathode
H—Heater

Thermal:

Seal Temperatures.	200 max.	°C
Plate Core Temperature	250 max.	°C
Incoming Air Temperature.	40 max.	°C
Air Flow.	28 min.	cfm
Static Pressure	0.25 in.	of water

Components:

Socket Eimac SK-800 Series, or equivalent



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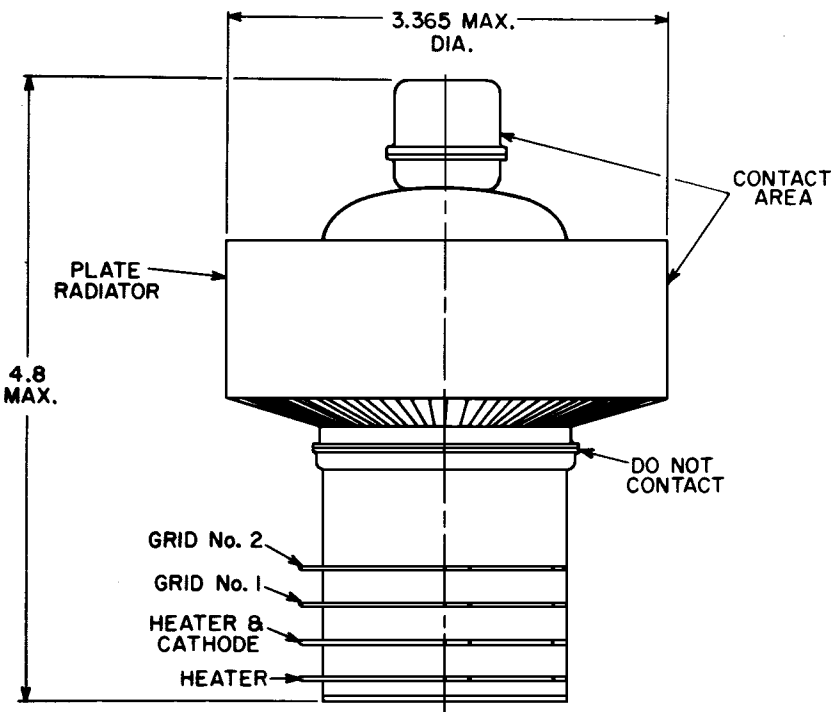
AF POWER AMPLIFIER & MODULATOR — Class AB₁^b
and
LINEAR RF POWER AMPLIFIER
Single-Sideband Suppressed-Carrier Service

For frequencies up to 30 Mc

Maximum CCS^c Ratings, Absolute-Maximum Values:

DC Plate Voltage.	3000 max.	volts
DC Grid-No.2 Voltage.	400 max.	volts
DC Plate Current.	1 max.	amp
Grid-No.2 Input	12 max.	watts
Grid-No.1 Input	0 max.	watts
Plate Dissipation	1000 max.	watts

- ^a With external shield.
- ^b Subscript 1 indicates that grid-No.1 current does not flow during any part of the input cycle.
- ^c Continuous Commercial Service.



92CS-12091

DIMENSIONS IN INCHES

