

Heater Arrangement	Series	Parallel	
Heater Voltage (ac/dc)	12.6 $\pm 10\%$	6.3 $\pm 10\%$	volts
Heater Current	0.15	0.30	ampere
Heater-Cathode Voltage:			
Peak value	± 90 max.	± 90 max.	volts
Direct Interelectrode Capacitances (Approx.):	Unit No. 1	Unit No. 2	
Grid to Plate	1.5	1.5	pF
Grid to Cathode and Heater	1.9	1.9	pF
Plate to Cathode and Heater	0.5	0.35	pF
Grid of Unit No.1 to grid of Unit No.2		0.1 max.	pF

Frequency Divider in Computer Service and "On-Off" Control Service

Values are for Each Unit

MAXIMUM RATINGS (Absolute-Maximum Values)

Plate Voltage	250	volts
Grid Voltage:		
Negative bias value	100	volts
Positive bias value	0	volt
Peak negative value	200	volts
Plate Dissipation	2.5	watts
Grid Input	0.5	watt
Cathode Current:	100	mA
Peak	20	mA
DC	± 90 max.	volts
Bulb Temperature (At hottest point on bulb surface)	120	$^{\circ}\text{C}$

TYPICAL OPERATION AS FREQUENCY HALFER

	Cutoff Condition	Zero-Bias Condition	
Plate-Supply Voltage	150	150	volts
Grid Voltage	-15	0	volts
Plate-Circuit Resistance	20000	20000	ohms
Grid-Circuit Resistance	47000	47000	ohms
Plate Current	0	5.1	mA

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:		
For fixed-bias operation	0.5	megohm
For cathode-bias operation	1	megohm

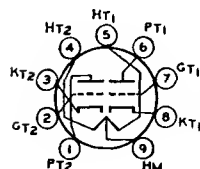
Class A₁ Amplifier (Each Unit)

CHARACTERISTICS

Plate Voltage	67.5	volts
Grid Voltage	0	volts
Amplification Factor	21	
Plate Resistance (Approx.)	6600	ohms
Transconductance	3200	μmhos
Plate Current	8.5	mA

Refer to chart at end of section.

5964



9A

MEDIUM-MU TWIN TRIODE

5965

INDUSTRIAL
TYPE

Miniature type medium-mu twin triode used for "on-off" control applications involving long periods of operation under cutoff conditions. Outlines section, 6B; requires miniature 9-contact socket.

Heater Arrangement	Series	Parallel	
Heater Voltage (ac/dc)	12.6 $\pm 10\%$	6.3 $\pm 10\%$	volts
Heater Current	0.225	0.45	ampere
Heater-Cathode Voltage:			
Peak value	± 200 max.	± 200 max.	volts
Average value	± 100 max.	± 100 max.	volts

Direct Interelectrode Capacitances (Approx.)	Unit No. 1	Unit No. 2	
Grid to Plate	3.0	3.0	pF
Grid to Cathode and Heater	3.8	3.8	pF
Plate to Cathode and Heater	0.5	0.38	pF
Plate of Unit No.1 to plate of Unit No.2	0.5		pF

Frequency Divider in Computer Service and "On-Off" Control Service

Values are for Each Unit

MAXIMUM RATINGS (Absolute-Maximum Values)

Plate Voltage	330	volts
Grid Voltage:		
Negative bias value	150	volts
Plate Dissipation	2.4	watts
Total for both units	4.4	watts
DC Cathode Current	16.5	mA
Bulb Temperature (At hottest point on bulb surface)	165	°C

TYPICAL OPERATION IN COMPUTER SERVICE

	Cutoff Condition	Conduction Condition	
Plate Supply Voltage	150	150	volts
Plate Load Resistor	7200	7200	ohms
Plate Current	—	10.5	mA
Grid Voltage (Approx.) for grid current of 140 μ A	—	less than 1	volt
Grid Voltage (Approx.) for plate current of 150 μ A	-5.5	—	volts
Difference in Grid Voltage Between Units (For plate current of 150 μ A per unit)	1.5	—	volts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.5	megohm

Class A₁ Amplifier (Each Unit)

CHARACTERISTICS

Plate Supply Voltage	150	volts
Cathode-Bias Resistor	220	ohms
Amplification Factor	47	
Plate Resistance	7250	ohms
Transconductance	6500	μ mhos
Plate Current	8.2	mA
Grid Voltage (Approx.) for plate current of 150 μ A	-5.5	volts

6005

Refer to chart at end of section.

6005/6AQ5W

Refer to chart at end of section.

6005/6AQ5W/

6095

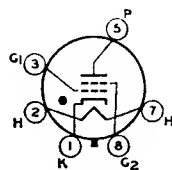
Refer to chart at end of section.

6012

INDUSTRIAL
TYPE

GAS THYRATRON

Glass octal negative-control gas-tetrode thyatron for use in relay and grid-controlled rectifier applications. Outlines section, 36; requires octal socket.



600

	Min.	Av.	Max.	
Heater Voltage (ac/dc)	5.7	6.3	6.9	volts
Heater Current	—	2.6	2.85	amperes
Heater-Cathode Voltage:				
Peak		+25,	-100 max.	volts
Cathode:				
Minimum heating time prior to tube conduction		30		seconds
Maximum outage time without reheating		5		seconds
Direct Interelectrode Capacitances (Approx.):				
Grid No.1 to Anode		0.23		pF
Grid No.1 to Cathode, Grid No.2, and Heater		5.8		pF
Anode to Cathode, Grid No.2, and Heater		3.9		pF