

6C5
6C5G

RAYTHEON

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TRIODE
DETECTOR OR AMPLIFIER

Heater Type
Metal Bulb-6C5 Glass Bulb-6C5G

The 6C5 is a triode type amplifier tube designed for service as a detector or amplifier in storage battery or a-c operated receivers.

RATINGS

Heater Voltage (a-c or d-c) 6.3 volts
Heater Current 0.3 amp
Maximum Plate Voltage 250 volts

DIRECT INTERELECTRODE CAPACITANCES

	Grid to Plate	Input	Output	
6C5*	1.8	4.0	13	p.f.
6C5G**	2.5	4.5	9.5	p.f.

AMPLIFIER - CLASS A

Plate Voltage	250	volts
Grid Bias	-8	volts
Amplification Factor	20	
Plate Resistance	10000	ohms
Transconductance	2000	μmhos
Plate Current	8	ma

AMPLIFIER - CLASS A - RESISTANCE COUPLED

Plate Supply Voltage	250	volts
Grid Bias (approximate)	-5	volts
Plate Resistor	50000 to 100000	ohms
Plate Current	1 to 2	ma
Voltage Amplification	14	
Voltage Output (5% second harmonic) RMS	42	volts

DETECTOR - BIASED TYPE

Plate Voltage	250	volts
Grid Bias (approximate)	-17	volts
Plate Current	Adjusted to 0.2 ma. with no signal	

DETECTOR - GRID LEAK TYPE

Plate Voltage	45 to 100	volts
Grid	Return to Cathode	
Grid Leak Resistance	0.1 to 1.0	megohm
Grid Condenser	0.00005 to 0.0005	μf

The voltage between heater and cathode should be kept as low as possible where they are not directly connected.

*With shell connected to cathode.

*Internal shield connected to cathode.

AVERAGE PLATE CHARACTERISTICS
 $E_f = 6.3V$

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AVERAGE CHARACTERISTICS
 $E_f = 6.3V$
 $E_p = 250V$

