



## TYPE 6D8G PENTAGRID CONVERTER

Sylvania

## TENTATIVE CHARACTERISTICS

Heater Voltage AC or DC		Volts Ampere	
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## Direct Interelectrode Capacitances:

Grid G to Plate (with tube shield)					0.30	$\mu\mu f$
Grid G to Plate (with tube shield) Grid G to Grid GA (with tube shield)					0.20	$\mu\mu f$
Grid G to Grid Go (with tube shield)					0.15	uuf
Grid Go to Grid GA		- 6			1.0	uuf
Grid G to all other Electrodes (R-F Input)	2		300		7.0	uuf
Gild G to all other Electrones (10-1 Input)					0.0	holes
Grid GA to all other Electrodes (Osc. Output)		100			6.0	μμΙ
Grid Go to all other Electrodes (Osc. Input)	2				7.0	μμf
Grid Go to all other Electrodes (Osc. Input) Plate to all other Electrodes (Mixer Output)					9.0	μμf
Maximum Over-all Length				8		4 17"
Maniana Diamata						1 9 "
Maximum Diameter	*					1 16
Bulb						ST-12
Cap			190			Miniature
Base—Small Octal 8-Pin						8-A

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Operating Condition	on	s a	nd	C	ha	ıra	cteristi	cs:	
Heater Voltage							6.3	6.3	Volts
Plate Voltage							100	250†	Volts
Control Grid Voltage (G)		0	10	2.7			-1.5	-3.0	Volts Min.
Screen Voltage (Gs)							50	100	Volts Max.
Anode Grid Voltage (GA)			12				100*	250*	Volts
Oscillator Grid Resistor (	30)						50000	50000	Ohms
Plate Current		ů.		v.			1.0	3.0	Ma.
Plate Current							1.7	3.5	Ma.
Anode Grid Current Oscillator Grid Current							1.8	4.5	Ma.
Oscillator Grid Current							0.25	0.7	Ma.
Cathode Resistor							300		Ohms
Plate Resistance							0.55	0.32	Megohm
Conversion Conductance							300	500	μmhos
Control Grid Voltage for 2 µmhos Conversion Co	ndu	cta	nce	·	ų.		-20	-40	Volts (Approx.)

\*Anode grid supply voltage with 20,000 ohms in series with GA.

## CIRCUIT APPLICATION

Sylvania 6D8G is a new pentagrid converter tube with characteristics very similar to those for Types 6A7 and 6A8G. The principal difference in ratings appears in the heater current which for Type 6D8G is only 0.150 ampere.

The uses for this tube parallel those for the other 6.3 volt tubes

having this construction. Reference may be made to the circuit

application notes for Type 6A7 on Page 36.