

HIGH PERVEANCE TRIODE - SHARP CUTOFF PENTODE TYPE 6GE8

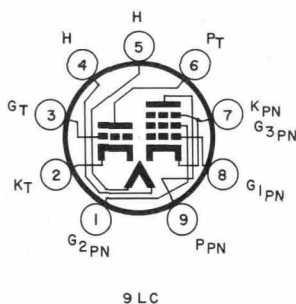
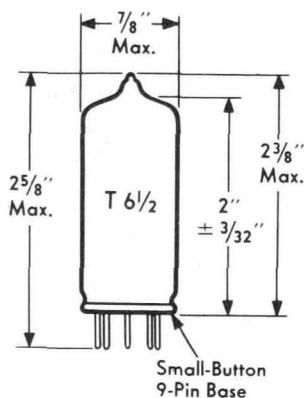
The 6GE8 is a 9-pin miniature high perveance triode and sharp cutoff pentode type designed for service in electronically regulated power supplies. The triode unit is used as a series regulating tube which is controlled by the pentode unit acting as a d-c amplifier.

ELECTRICAL:

Cathodes	Coated Unipotential
Heater:	
Voltage	6.3 Volts
Current	0.90 Ampere
Direct Interelectrode Capacitances (Unshielded)	
Triode Unit:	
Grid to Plate	7.5 $\mu\mu\text{f}$
Input	5.5 $\mu\mu\text{f}$
Output	1.3 $\mu\mu\text{f}$
Pentode Unit:	
Grid 1 to Plate	0.02 $\mu\mu\text{f}$
Input	8.0 $\mu\mu\text{f}$
Output	2.4 $\mu\mu\text{f}$

MECHANICAL:

Bulb	T-6½
Base	9-Pin Miniature (JEDEC E9-1)
Outline	6-3
Basing	9LC
Mounting Position	Any



MAXIMUM RATINGS

Design Maximum Values	Pentode Unit	Triode Unit	
Plate Voltage	330	275 max.	Volts
Grid 2 Supply Voltage	275	-- max.	Volts
Grid 2 Voltage	See Grid 2 Input Rating Curve		
Plate Dissipation	1.0	7.0 max.	Watts
Grid 2 Dissipation	0.5	-- max.	Watts
Cathode Current:			
Average	--	50 max.	Ma.
Peak	--	175 max.	Ma.
Heater Cathode Voltage:			
Heater Negative with Respect to Cathode	200	200 max.	Volts
Heater Positive with Respect to Cathode	100	100 max.	Volts

LIMITING CIRCUIT VALUES

Grid Circuit Resistance:			
Self Bias	2.2	2.2 max.	Megohms

AVERAGE CHARACTERISTICS

	Pentode	Triode	
Plate Voltage	150	150	Volts
Grid 2 Voltage	150	--	Volts
Grid 1 Voltage	-2	-21	Volts
Plate Resistance	340000	1,080	Ohms
Transconductance	3200	5000	μmhos
Amplification Factor	--	5.4	
Grid 1 Cutoff Voltage	-8⊕	-42⬢	Volts
Plate Current	5.5	35	Ma.
Grid 2 Current	1.7	--	Ma.

Zero Bias Characteristic (Triode Unit)

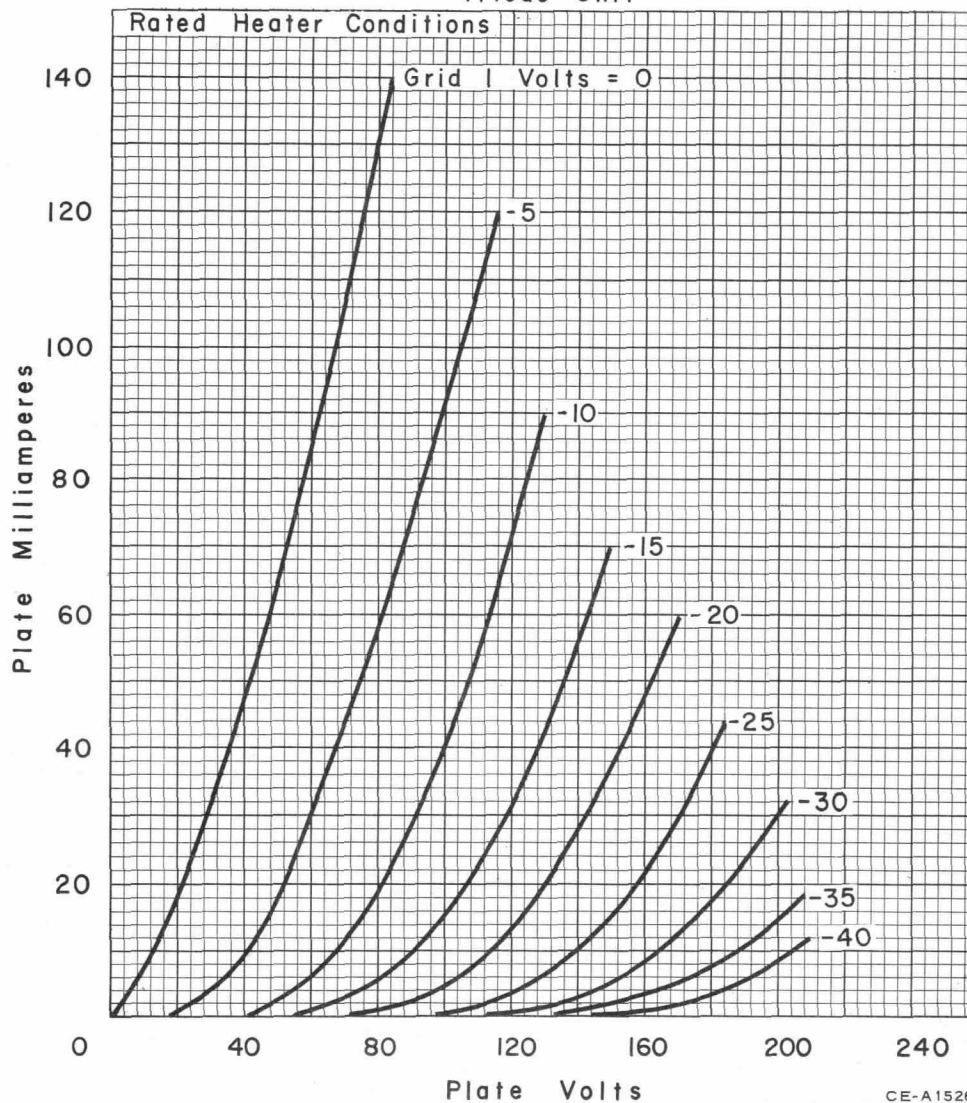
Plate Voltage	50	Volts
Grid Voltage	0	Volts
Plate Current	70	Ma.

Plate Resistance Characteristic (Pentode Unit)

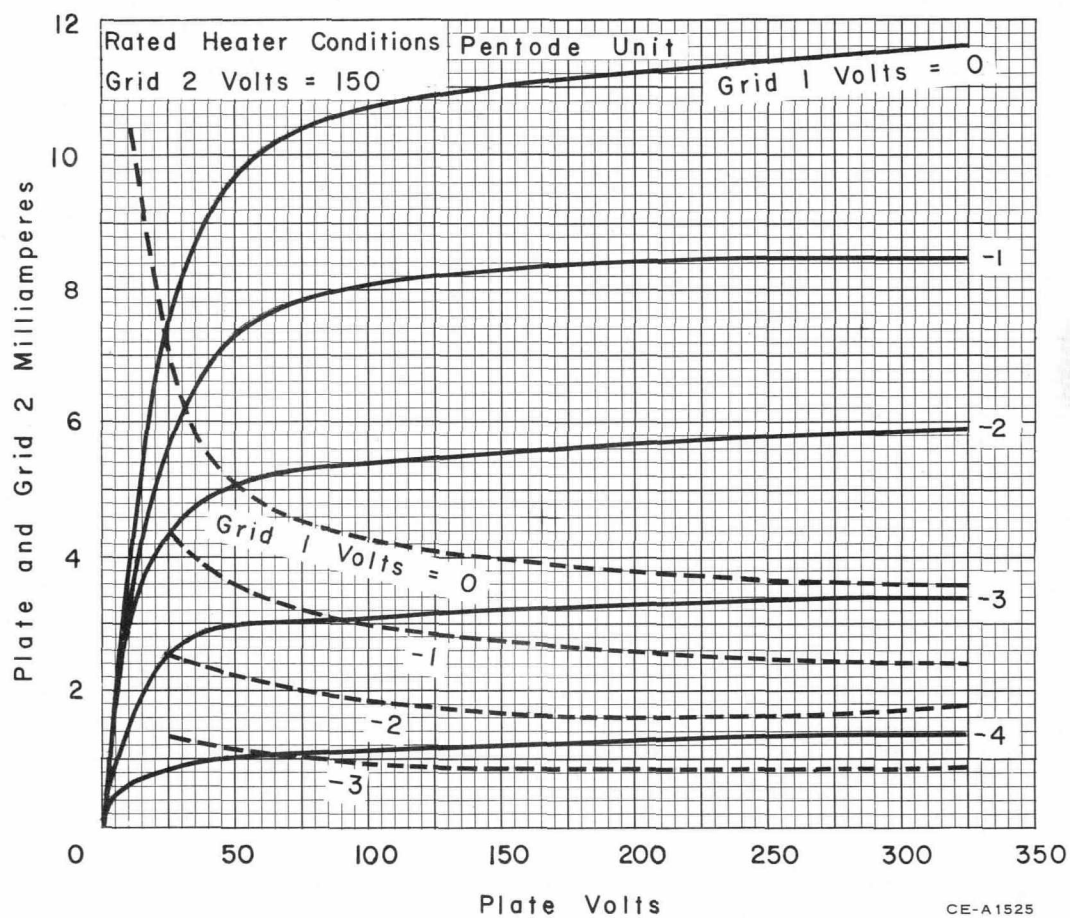
Plate Voltage	100	Volts
Grid 2 Voltage	50	Volts
Plate Current	100	$\mu\text{amperes}$
Plate Resistance	>7	Megohms

⊕ For plate current of 50 microamperes.

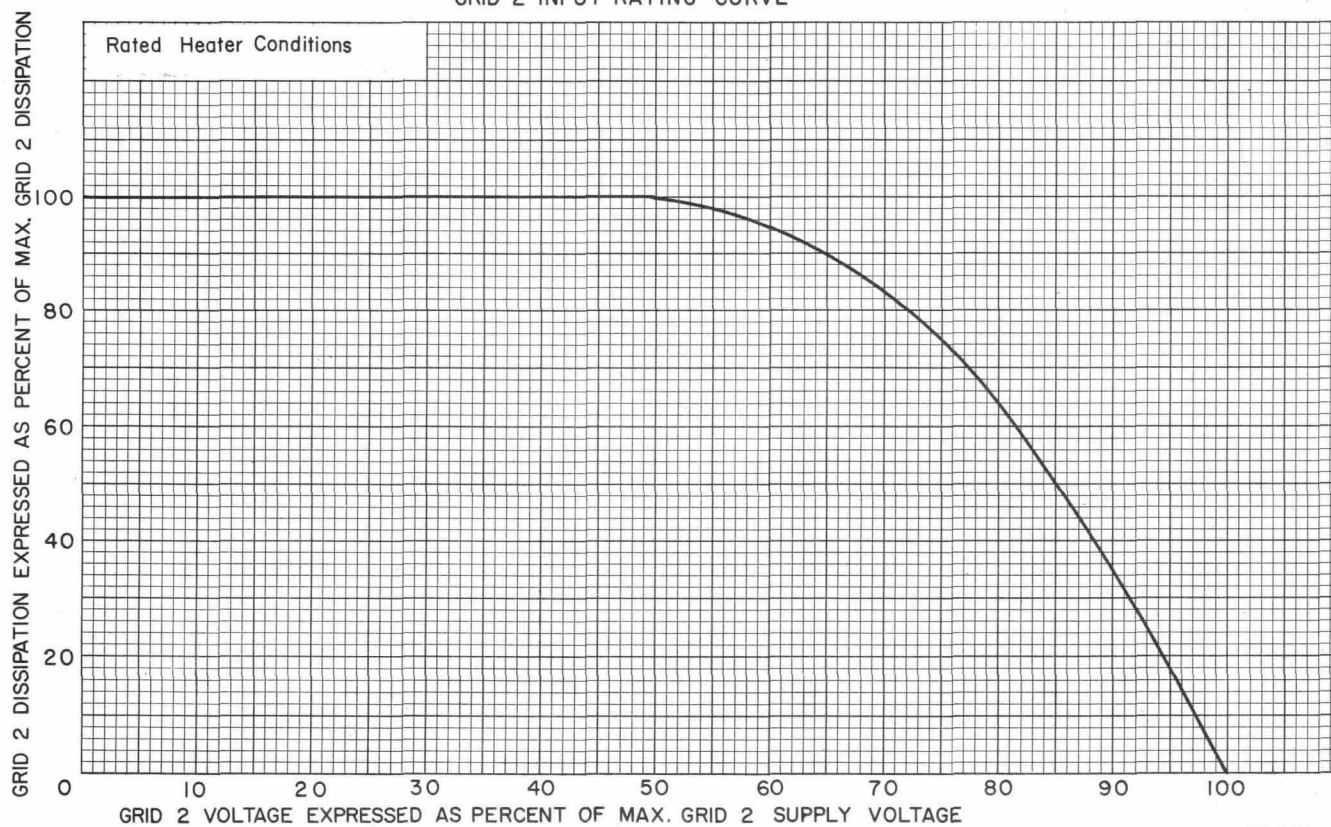
⬢ For plate current of 500 microamperes.

AVERAGE PLATE CHARACTERISTICS
Triode Unit

AVERAGE PLATE CHARACTERISTICS



GRID 2 INPUT RATING CURVE



CE-A1255