

HIGH FREQUENCY TWIN TRIODE TYPE 6DJ8

The 6DJ8 is a 9-pin miniature twin triode designed for use as low-noise VHF amplifier for cascode operation. This type has high gain and high cascode transconductance. It is designed for operation with section 1 (pins 6, 7, and 8) as input section of the cascode circuit.

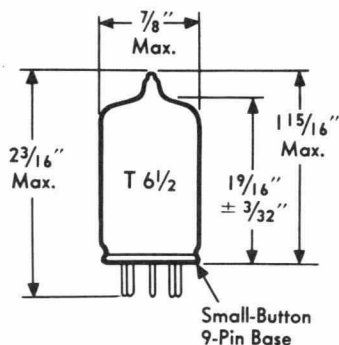
ELECTRICAL:

Cathode.....	Coated Unipotential
Heater:	
Voltage (ac or dc)	6.3 ± 10% Volts
Current	0.365 Ampere
Direct Interelectrode Capacitances: (Unshielded)	

	Unit 1	Unit 2
Grid to Plate.....	1.4	1.4 $\mu\mu\text{f}$
Plate to Cathode	--	0.18 $\mu\mu\text{f}$
Heater to Cathode	--	2.7 $\mu\mu\text{f}$
Grid to Heater.....	0.13	-- $\mu\mu\text{f}$
Input.....	3.3	-- $\mu\mu\text{f}$
Output.....	1.8	-- $\mu\mu\text{f}$
Grounded Grid Operation:		
Input.....	--	6.0 $\mu\mu\text{f}$
Output.....	--	2.8 $\mu\mu\text{f}$
Plate of Unit 1 to Plate of Unit 2	0.045 max.	$\mu\mu\text{f}$
Plate of Unit 2 to Plate and Grid of Unit 1	0.005 max.	$\mu\mu\text{f}$

MECHANICAL:

Bulb.....	T-6-½
Base.....	Miniature 9-Pin (JEDEC E9-1)
Outline	6-2
Basing.....	9AJ
Mounting	Any



MAXIMUM RATINGS:

Design-Center Values

Plate Voltage [⊕]	130 max.	Volts
Plate Voltage (Not Conducting).....	550 max.	Volts
Cathode Current	25 max.	Ma.
Plate Dissipation.....	1.8 max.	Watts
Negative Grid DC Voltage	50 max.	Volts
Grid Circuit Resistance.....	1.0 max.	Megohm
Heater-Cathode Voltage:		

Unit 1 Unit 2

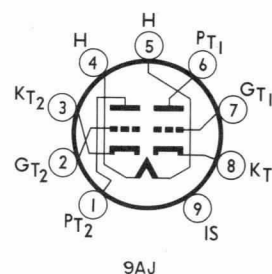
Heater Positive or Negative with respect to Cathode, Total DC and Peak.....	50	-- max.	Volts
Heater Negative with respect to Cathode: DC Component.....	--	130 max.	Volts
Total DC and Peak.....	--	150 max.	Volts
Circuit Resistance Between Heater and Cathode	20000	20000 max.	Ohms

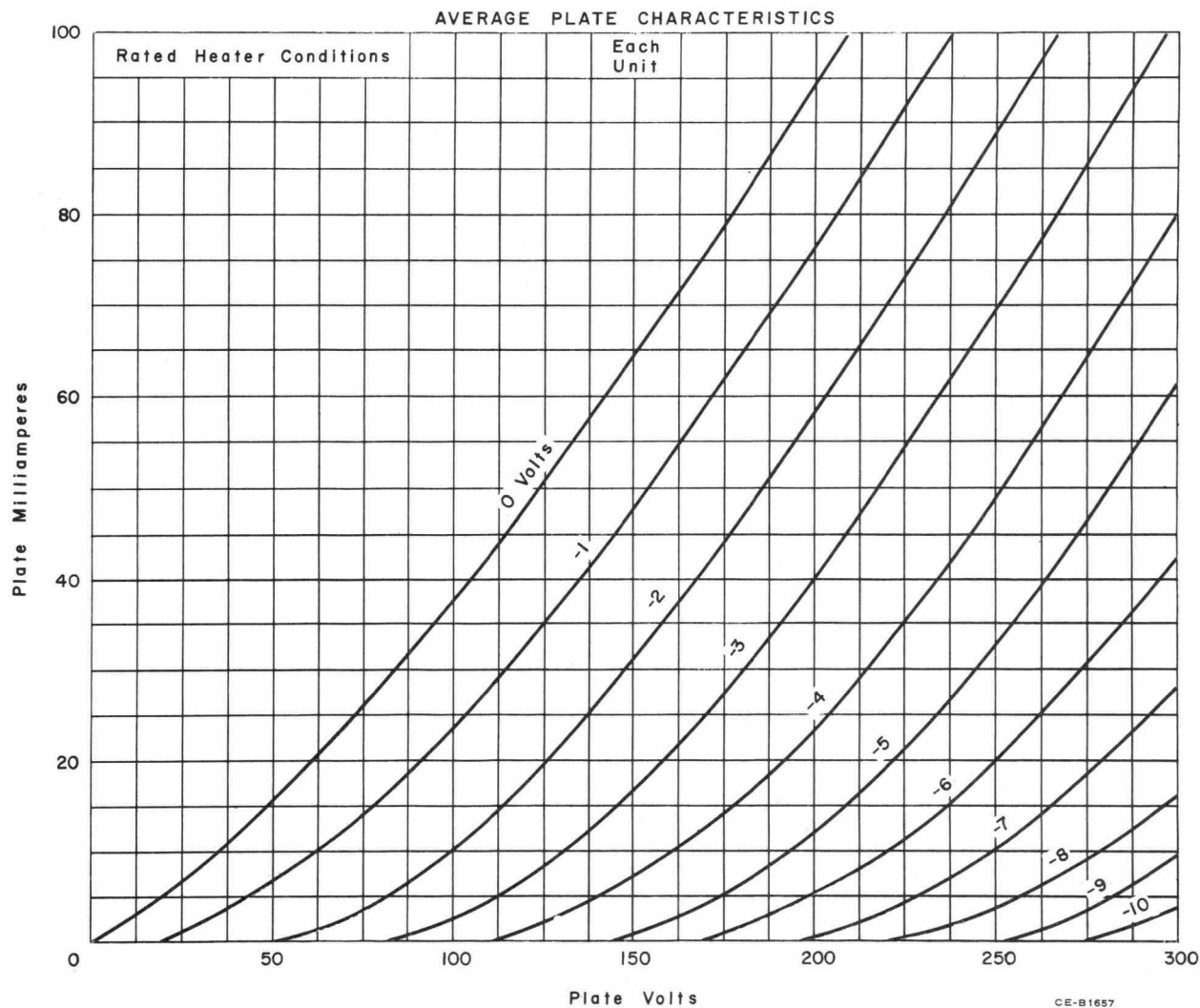
TYPICAL OPERATING CHARACTERISTICS

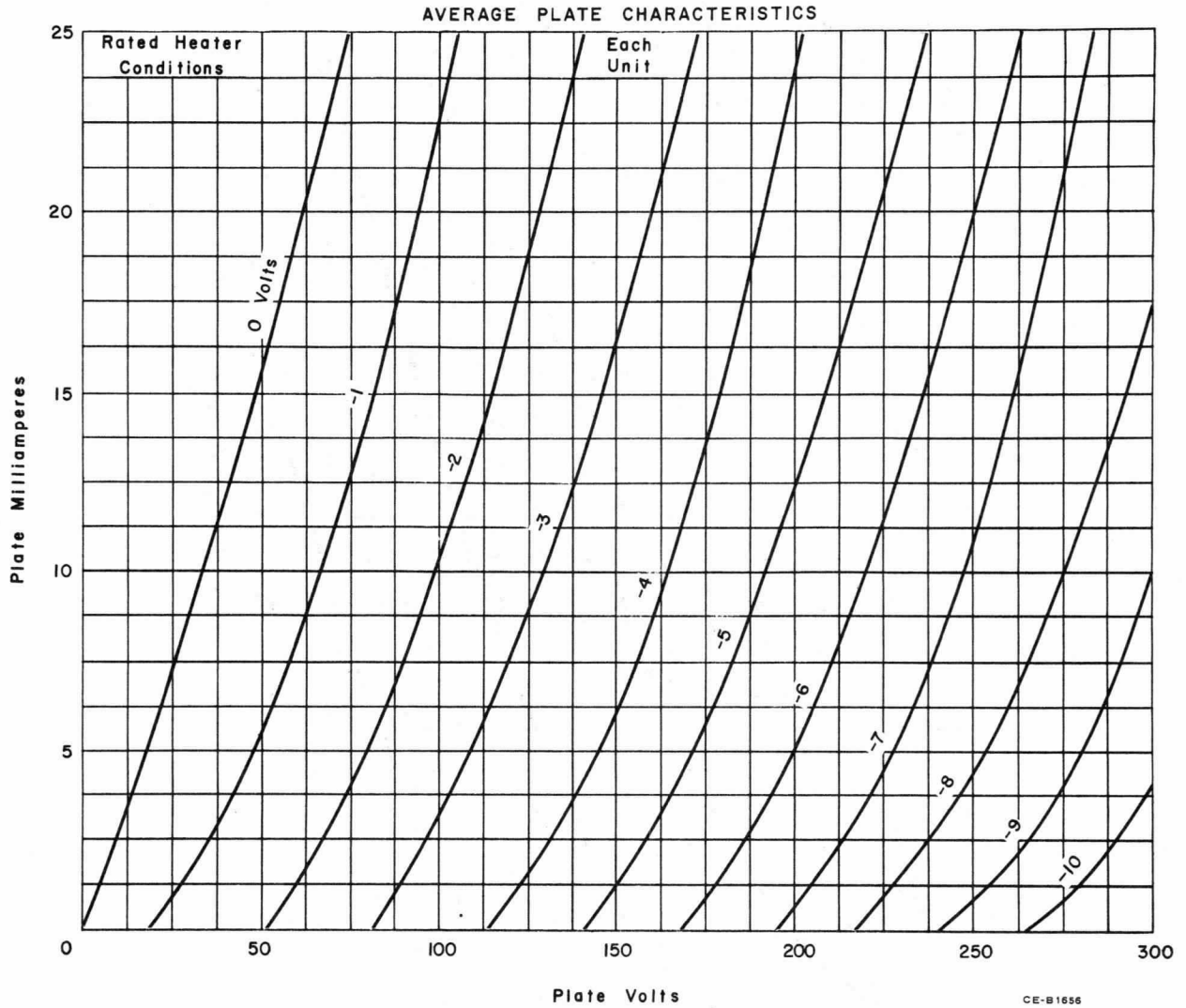
(Each Unit)

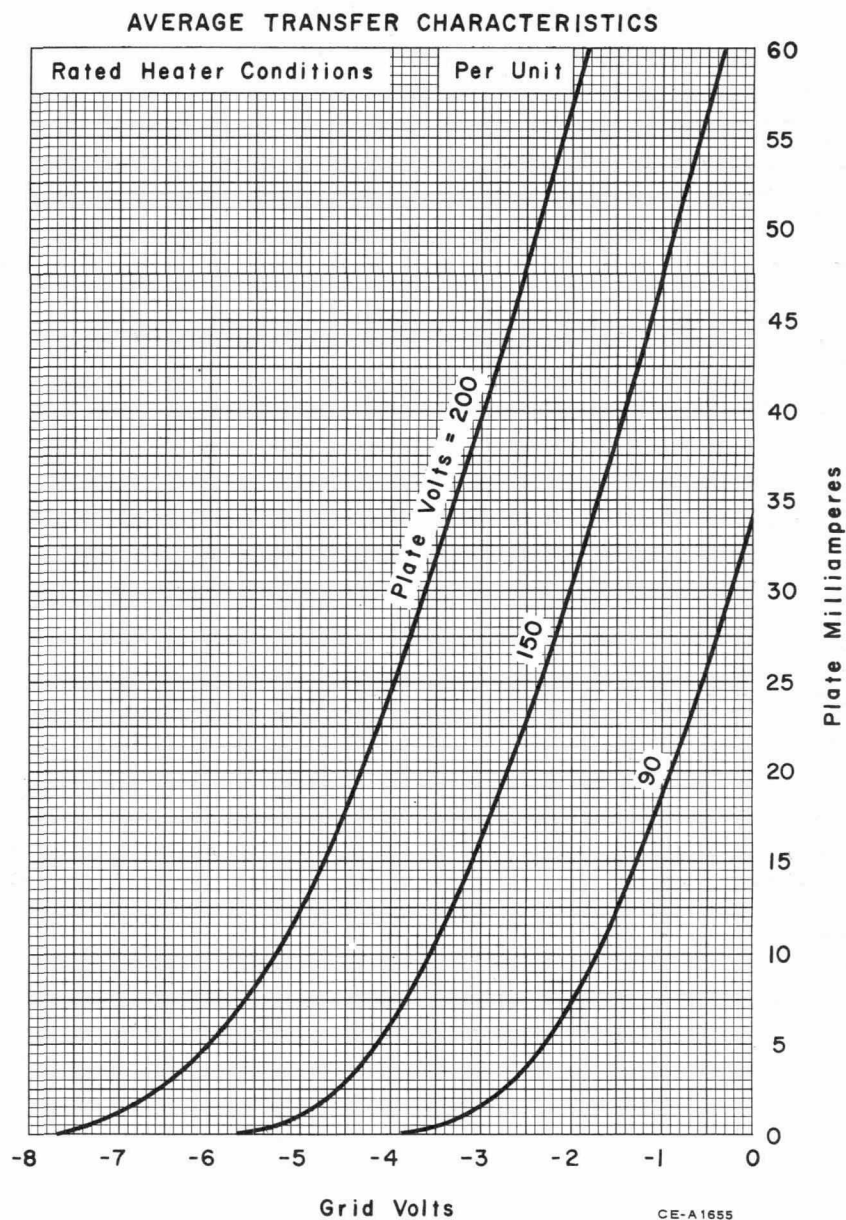
Plate Voltage [⊕]	90	Volts
Grid Bias Voltage	-1.3	Volts
Plate Current	15	Ma.
Amplification Factor	33	
Transconductance	12500	μmhms
Equivalent Noise Resistance	300	Ohms

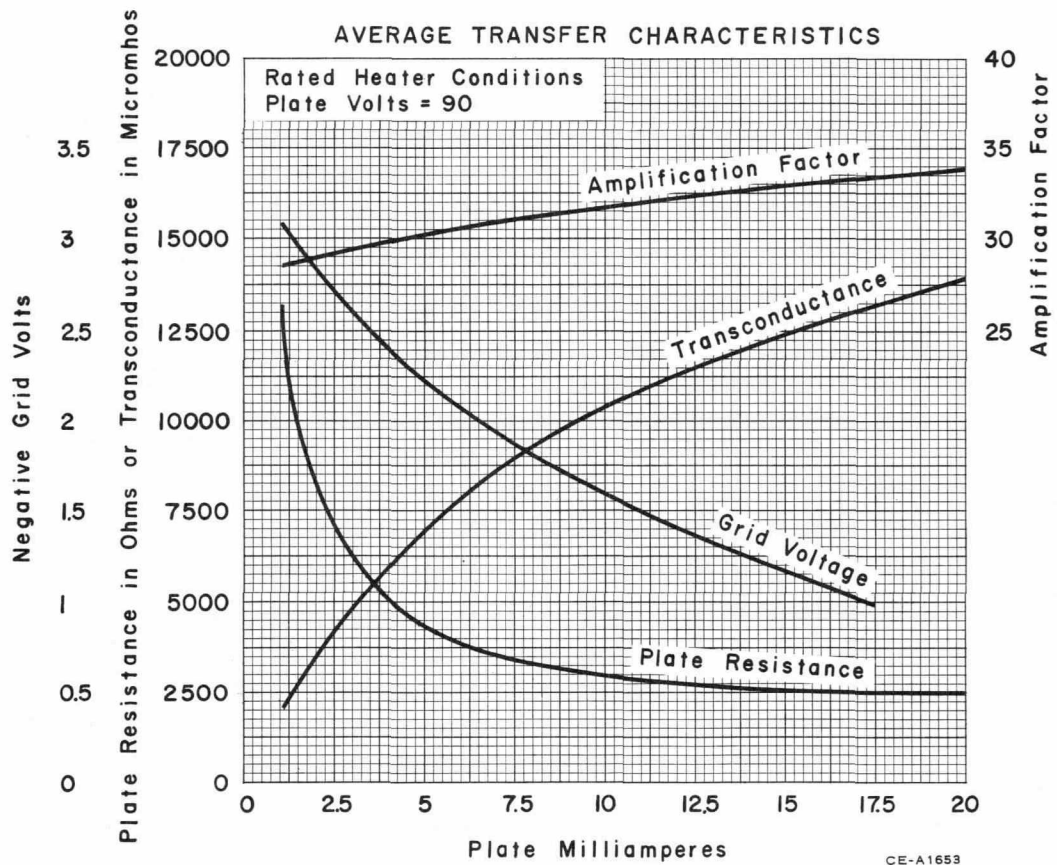
⊕ A voltage divider should be used to supply operating potential for the grid of the grounded-grid unit to ensure operation within the plate voltage rating. The voltage between plate and cathode of the grounded-cathode unit should not exceed 75 volts when using grid current bias and no agc voltage is applied.

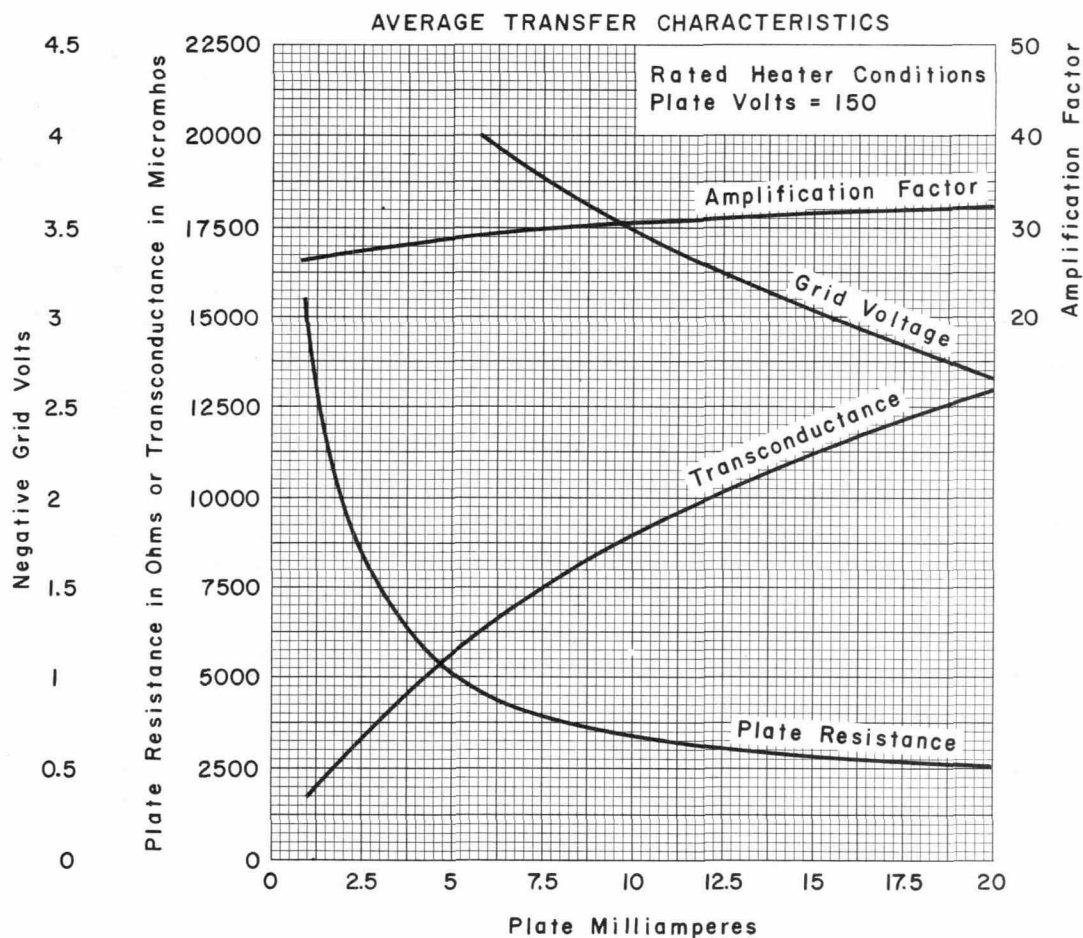












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