

MECHANICAL DATA

Bulb	T-12
Base ¹	Medium Octal Low Loss Phenolic 7-Pin
Basing	7S
Cathode	Coated Unipotential
Mounting Position	Any

RATINGS

Shock (Intermittent Service-Abs. Max.)	450 g
Vibration (Continuous Service-Design Center)	2.5 g
Mechanical Resonance	None Below 100 cps

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage (Avg.)	6.3 Volts
Heater Voltage (Abs. Max.)	7.0 Volts
Heater Voltage (Design Center)	6.3 Volts
Heater Current (Avg.)	900 Ma
Heater Current (Max.) ²	960 Ma
Heater Current (Min.) ²	840 Ma

RATINGS

	Absolute Max.	Design Center
Plate Voltage	400	360 Volts
Screen Voltage	300	270 Volts
Plate Dissipation	21	19.0 Watts
Screen Dissipation	2.75	2.5 Watts
Heater-Cathode Voltage	±200	±180 Volts

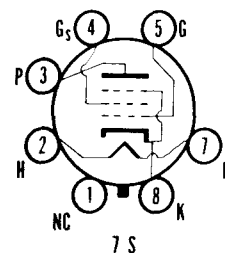
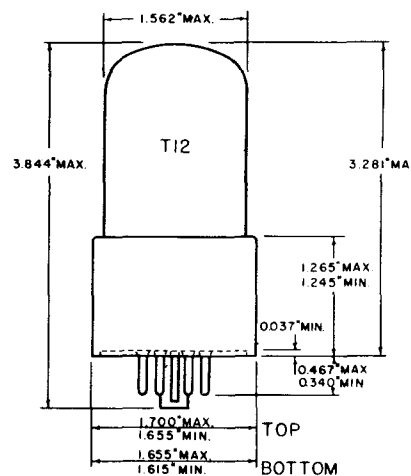
CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier (Single Tube)

	Min. ²	Avg.	Max. ²
Plate Voltage		250	Volts
Screen Voltage		250	Volts
Grid Voltage ³		-14	Volts
Peak A F Signal Voltage		14	Volts
Plate Current (Zero Signal)	58	72	86 Ma
Plate Current (Maximum Signal)		79	Ma
Screen Current (Zero Signal)	0	5	8 Ma
Screen Current (Maximum Signal)		7.3	Ma
Transconductance	5200	6000	6800 μmhos
Plate Resistance		22500	Ohms
Load Resistance		2500	Ohms
Power Output	5.4	6.5	Watts
Total Harmonic Distortion		10	Percent
Grid Current			3.0 μa
Heater-Cathode Leakage at ±200 Volts			75 μa

QUICK REFERENCE DATA

Rugged beam power amplifier designed for use in control or recording devices, or as an amplifier in equipment subjected to mechanical shock or vibration.



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CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier (Single Tube)

Plate Voltage	300	350	Volts
Screen Voltage	200	250	Volts
Grid Voltage ³	-12.5	-18	Volts
Peak A F Signal Voltage	12.5	18	Volts
Plate Current (Zero Signal)	48	54	Ma
Plate Current (Maximum Signal)	55	66	Ma
Screen Current (Zero Signal)	2.5	2.5	Ma
Screen Current (Maximum Signal)	4.7	7.0	Ma
Transconductance	5300	5200	μmhos
Plate Resistance	35000	33000	Ohms
Load Resistance	4500	4200	Ohms
Power Output	6.5	10.8	Watts
Total Harmonic Distortion	11	15	Percent

Push-Pull Amplifier

	Class A ₁		Class AB ₁		Class AB ₂	
Plate Voltage	250	270	360	360	360	360 Volts
Screen Voltage	250	250	270	270	225	270 Volts
Grid Voltage ³	-16	-17.5	-22.5	-22.5	-18	-22.5 Volts
Peak A F Grid to Grid Voltage	32	35	45	45	52	72 Volts
Plate Current (Zero Signal)	120	134	88	88	78	88 Ma
Plate Current (Max. Signal)	140	155	132	140	142	205 Ma
Screen Current (Zero Signal)	10	11	5	5	3.5	5 Ma
Screen Current (Max. Signal)	16	17	15	11	11	16 Ma
Transconductance	5500	5700	—	—	—	— μmhos
Plate Resistance	24500	23500	—	—	—	— Ohms
Load Resistance	5000	5000	6600	3800	6000	3800 Ohms
Power Output	14.5	17.5	26.5	18	31	47 Watts
Total Harmonic Distortion	2	2	2	2	2	2 Percent

NOTES:

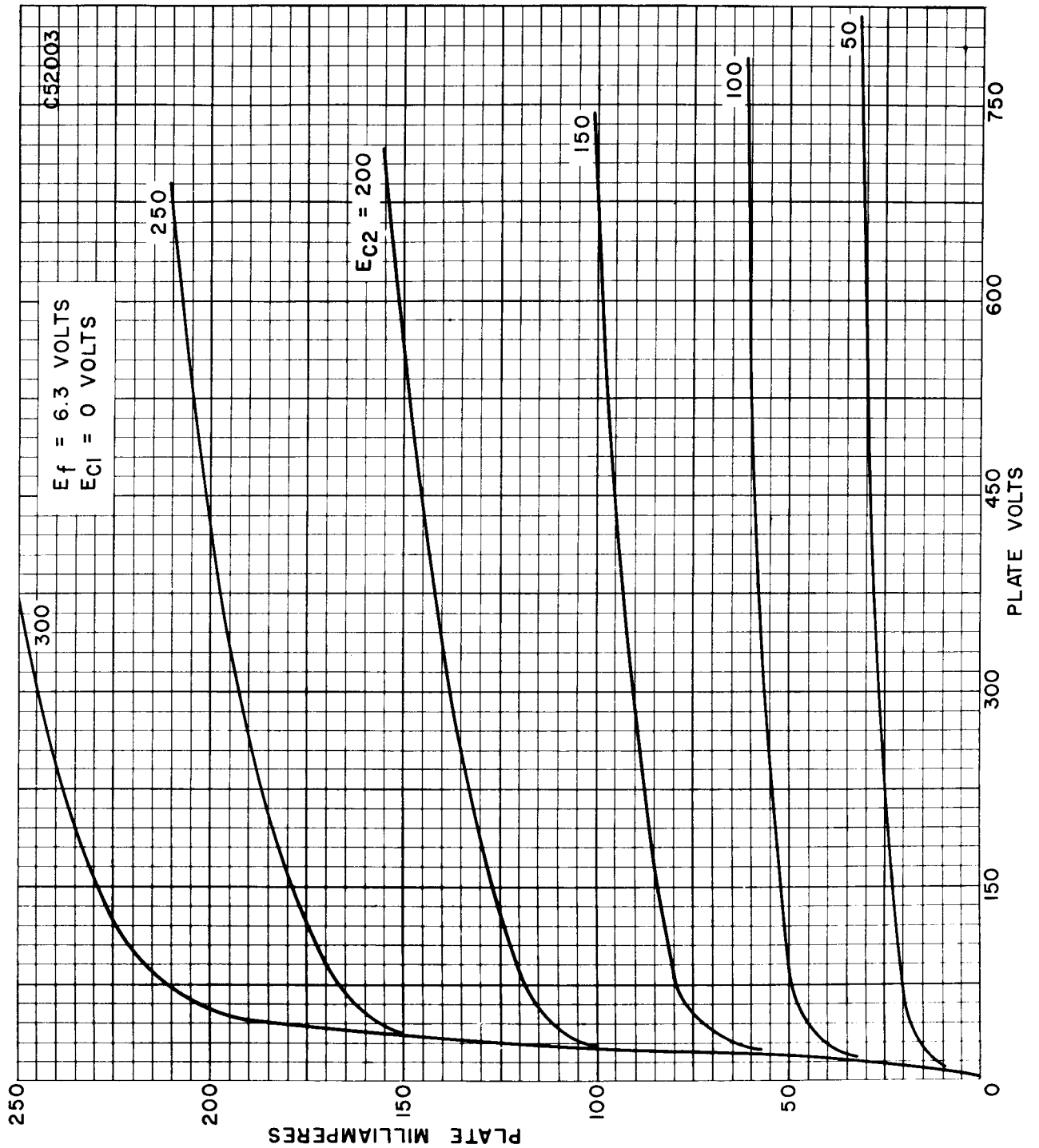
1. Maximum base dielectric loss factor is 0.1. Reference: ASTM Designation D-150-47T.
2. Limits given here are the extremes which may be found in production.
3. For fixed bias operation the grid bias resistor should not exceed 0.1 megohm. A grid circuit resistance of .25 megohm may be used for self bias providing the heater voltage will not exceed 7.0 volts under any probable operating condition.

AVERAGE PLATE CHARACTERISTICS

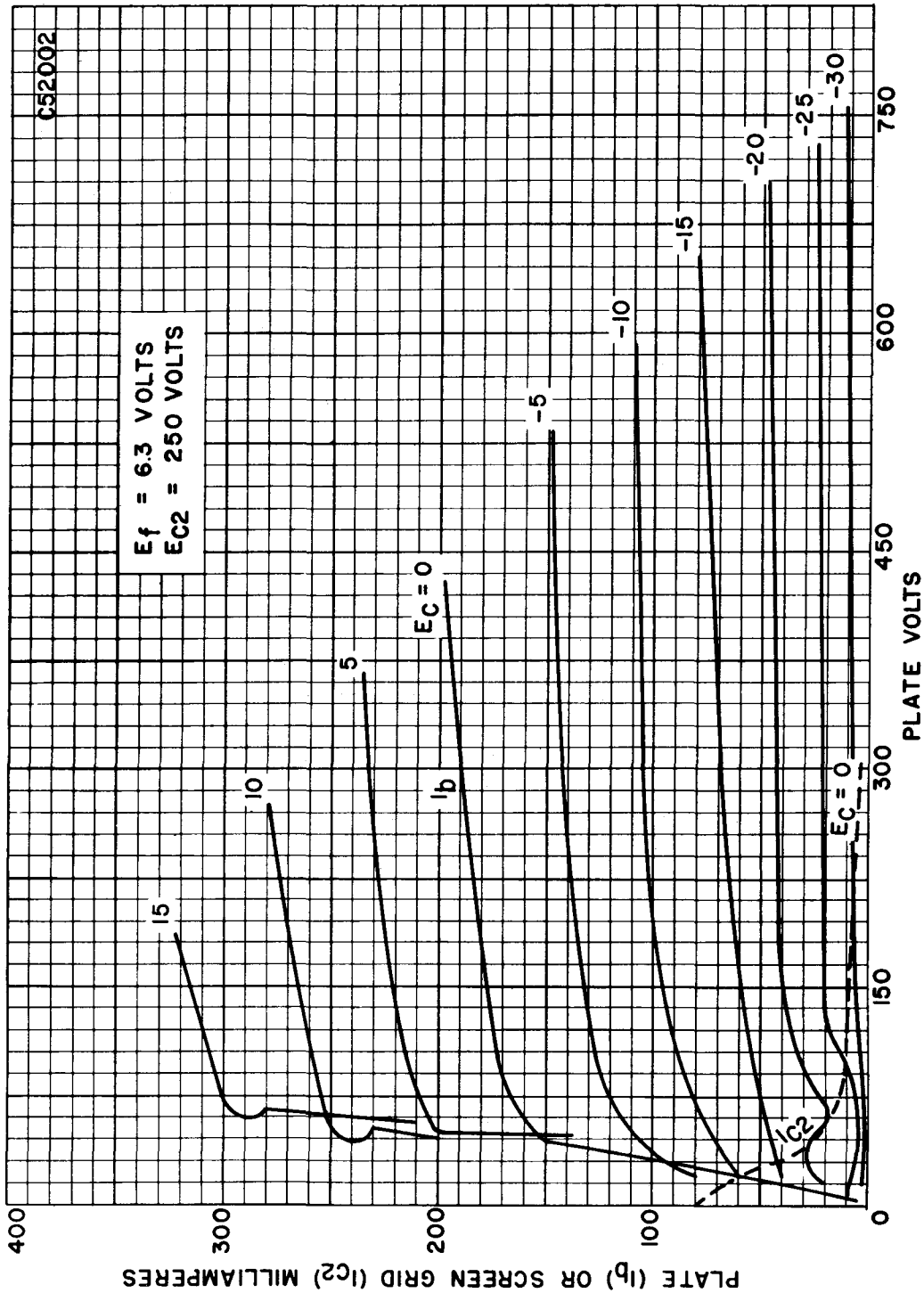
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AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS
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