

TUNO-80L

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MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	→ 16	VOLTS
GRID #2 & #4 VOLTAGE	→ 16	VOLTS
GRID #2 & #4 SUPPLY VOLTAGE	→ 16	VOLTS
NEGATIVE DC GRID #3 VOLTAGE	→ 16	VOLTS
POSITIVE DC GRID #3 VOLTAGE	0	VOLTS
CATHODE CURRENT	20	MA.
GRID #3 CIRCUIT RESISTANCE	10	MEGOHMS

→ TYPICAL OPERATING CHARACTERISTICS
CONVERTER - SEPARATE EXCITATION

PLATE VOLTAGE	10.6	12.6	14.6	VOLTS
GRID #3 VOLTAGE	0	0	0	VOLTS
GRID #2 & #4 VOLTAGE	10.6	12.6	14.6	VOLTS
GRID #1 VOLTAGE PEAK TO PEAK	4.5	4.5	4.5	VOLTS
GRID #1 RESISTANCE	33000	33000	33000	OHMS
GRID #3 RESISTANCE	2.2	2.2	2.2	MEGOHMS
PLATE RESISTANCE (APPROX.)	0.50	0.40	0.20	MEGOHMS
GRID #1 CURRENT (APPROX.)		60		μA.
CONVERSION TRANSCONDUCTANCE		320		μMHOS
PLATE CURRENT		350		μA
CATHODE CURRENT		1600		μA
GRID #3 VOLTAGE FOR $G_c = 5 \mu\text{MHOS}$ (APPROX.)		-3.0		VOLTS
GRID #3 VOLTAGE FOR $G_c = 0.5 \mu\text{MHOS}$ (APPROX.)		-4.0		VOLTS

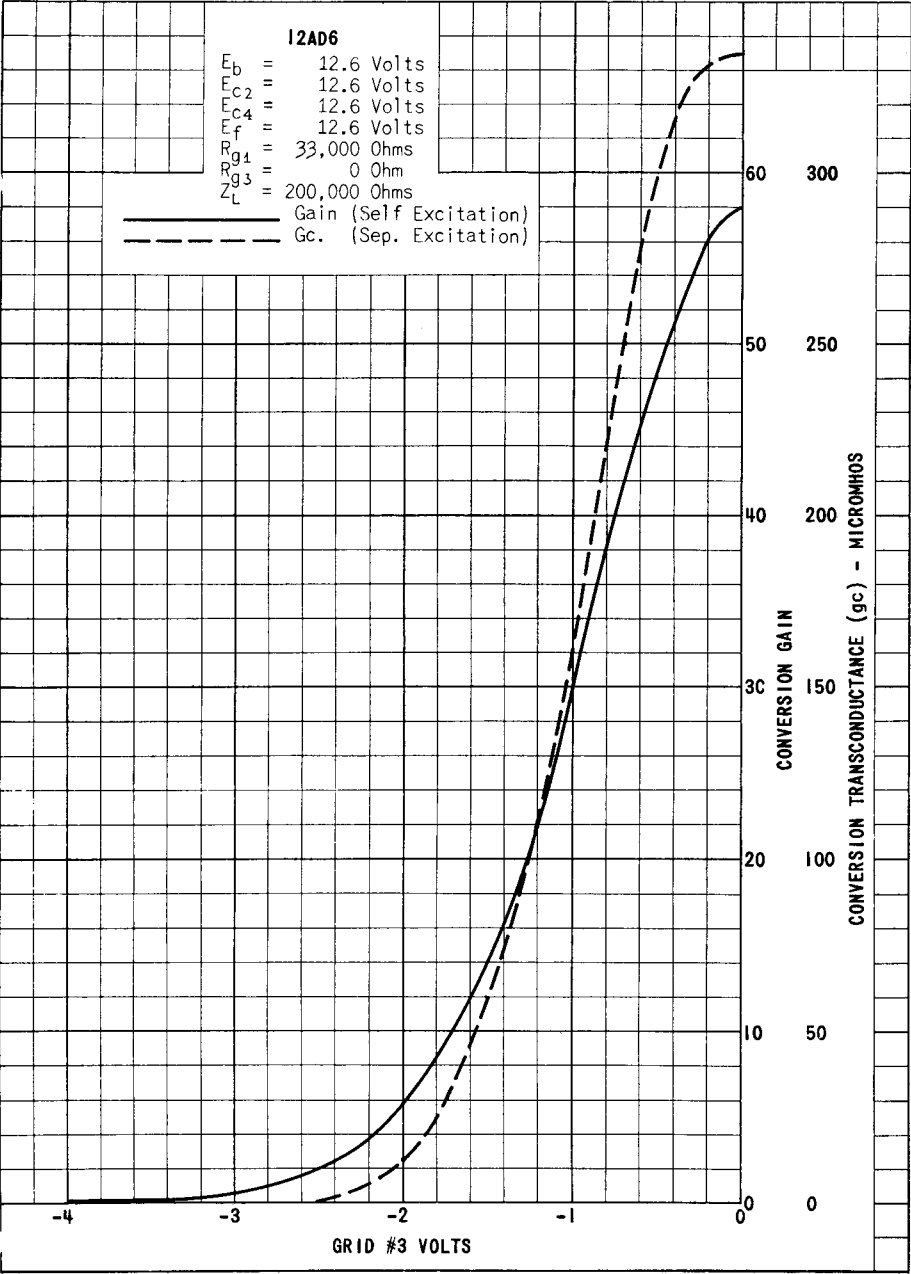
→ OSCILLATOR CHARACTERISTICS - NOT OSCILLATING

GRID #3 VOLTAGE	0	VOLTS
GRID #1 VOLTAGE (OSCILLATOR GRID)	0	VOLTS
GRID #2 & #4 CONNECTED TO PLATE	12.6	VOLTS
TRANSCONDUCTANCE BETWEEN GRID #1, #2 & #4 CONNECTED TO PLATE	3600	μMHOS
AMPLIFICATION FACTOR BETWEEN GRID #1, #2 AND 4 CONNECTED TO PLATE	9.4	
CATHODE CURRENT	4.5	MA.
GRID #1 VOLTAGE (APPROX.) FOR $I_b = 10 \mu\text{A}$.	-3.7	VOLTS

A
EXTERNAL SHIELD #31A CONNECTED TO CATHODE.

B
THE EQUIPMENT DESIGNER SHALL SO DESIGN THE EQUIPMENT THAT THE FILAMENT VOLTAGE IS CENTERED AT THE SPECIFIED BOGEY VALUE. FILAMENT SUPPLY VARIATIONS SHALL BE RESTRICTED TO MAINTAIN FILAMENT VOLTAGE WITHIN THE SPECIFIED TOLERANCE. FOR LONGEST LIFE IT IS RECOMMENDED THAT THE HEATER BE OPERATED WITHIN THE RANGE OF 11 TO 14 VOLTS.

→ INDICATES A CHANGE.



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