

*S.S.B.
Linear Amplifier*

RATINGS - DATA

for Husky

ZERO BIAS POWER TRIODE by "O'MALLEY"

572 B

Type 811A
and
811 - A/B
Replacement

FEATURES:

- ▶ TWO 572 - B's IN PARALLEL WILL PERMIT 1 KW INPUT.
- ▶ IN EVERY CASE DIRECT PLUG-IN REPLACEMENT FOR CONVENTIONAL 811A's.
- ▶ CAPABLE OF 225 WATTS PLATE DISSIPATION.
- ▶ 300 % INCREASE PLATE DISSIPATION OVER 811A's.
- ▶ ZERCONIUM IMPREGNATED GRAPHITE ANODE.
- ▶ RUGGED BONDED THORIA FILAMENT - FOR LONGER LIFE.

GENERAL CHARACTERISTICS

ELECTRICAL:

Filament Voltage	6.3 volts
Current	4.0 amps
Amplification Factor	190
Interelectrode Capacitances:	
Grid - Plate	6.0 mmf
Grid - Filament	6.0 mmf
Plate - Filament	0.8 mmf

MECHANICAL:

Base 4 pin
Recommended Socket..... Johnson 122 - 224 or National XC4CIR4
Dimensions - see outline drawing
Bulb (Nonex - hard glass)..... Max. temp. 200° C

Note: O'Malley Type 572 - B can be mounted base up or base down. If mounted in a horizontal position, filament and grid should be in a vertical plane.

FOR LONGER LIFE: If the free circulation of air around the tube is restricted, a small fan or centrifugal blower may be used to provide additional cooling for the tube.

Special Applications: If it is desired to operate this tube under conditions widely different from those given here, please write to Application Engineering Dept., for information and recommendations.

O'MALLEY ZERO BIAS POWER TRIODE :

CLASS B - SSB SERVICE

Two-Tone Modulation @ 30 Mc.

MAXIMUM RATINGS:

D-C Plate Voltage.....	2500 Volts max.
D-C Plate Grid.....	250 Ma. max.
D-C Grid Current.....	50 Ma. max.
D-C Plate Input.....	560 Watts
Plate Dissipation.....	225 Watts

TYPICAL OPERATION:

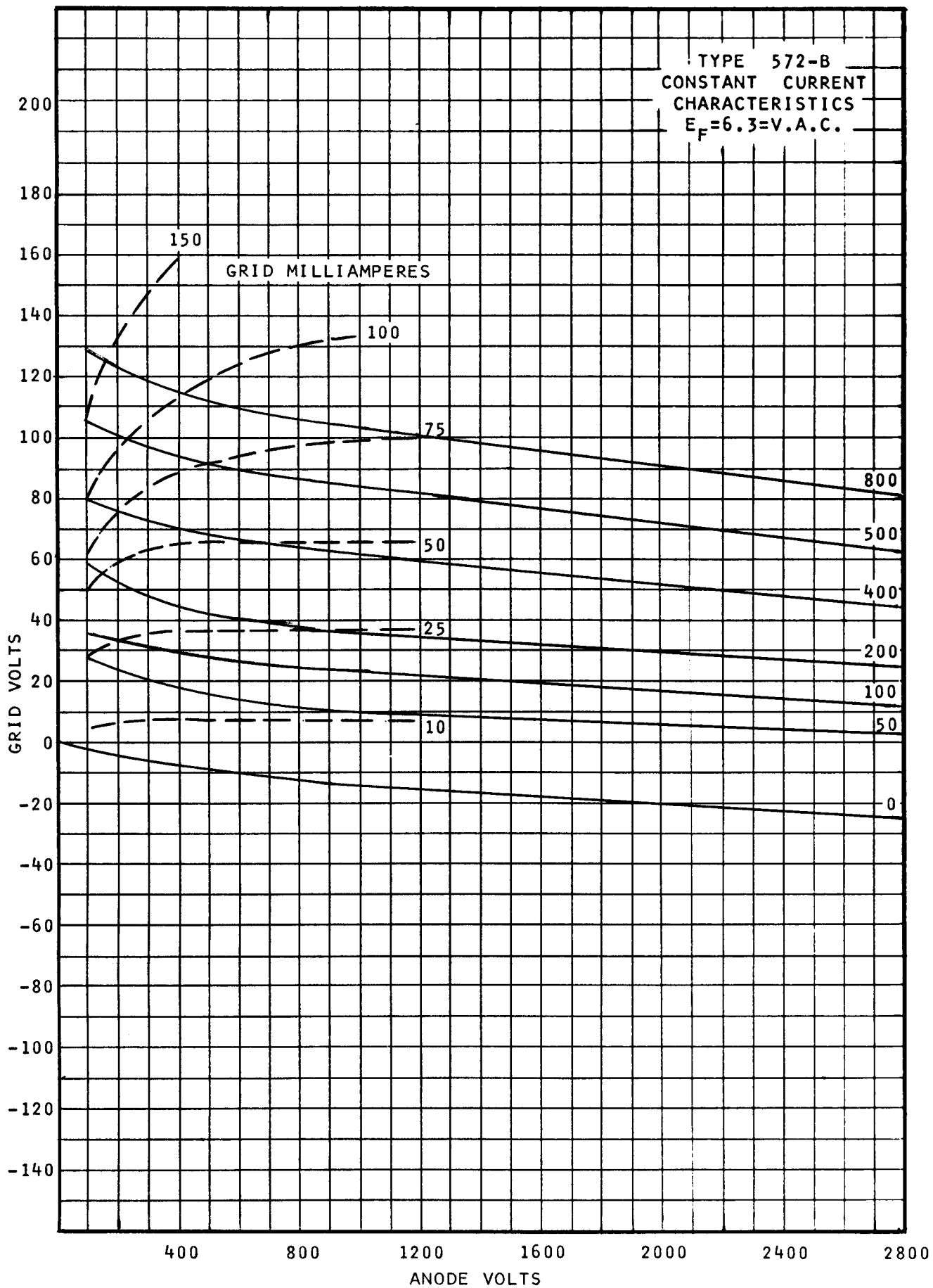
Two-Tone Modulation @ 30 Mc.

D-C Plate Voltage.....	2500 Volts max.
D-C Grid Voltage.....	0 Volts
Zero Signal D-C Plate Current.....	25 Ma.
D-C Plate Current at Peak Envelope.....	225 Ma.
Average Plate Current.....	160 Ma.
Peak Plate Current.....	675 Ma.
Peak Positive Grid Voltage.....	110 Volts
Average D-C Grid Current.....	35 Ma.
Minimum Plate Voltage.....	135 Volts
D-C Input at Peak of Envelope.....	560 Watts
Peak Envelope Power Output.....	400 Watts
Plate Dissipation.....	195 Watts
Peak R-F Grid Voltage.....	110 Volts
Peak Grid Current.....	150 Ma.
Peak of Envelope Grid Current.....	50 Ma.
Driving Power of Tube.....	4.2 Watts
Effective Load Resistance.....	6900 Ohms

CATHODE DRIVE CONDITIONS:

Feed Through Power.....	17.5 Watts
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Note: "Typical Operation" data obtained by calculation from published characteristic curves and direct tests. No allowances of circuit losses, input or output has been made.



O'MALLEY ZERO BIAS POWER TRIODE:

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR CLASS B

MAXIMUM RATINGS:

D-C Plate Voltage	2500 Volts Max.
D-C Plate Current	250 Ma. Max.
D-C Grid Current	50 Ma. Max.
D-C Plate Input	560 Watts
Plate Dissipation	225 Watts

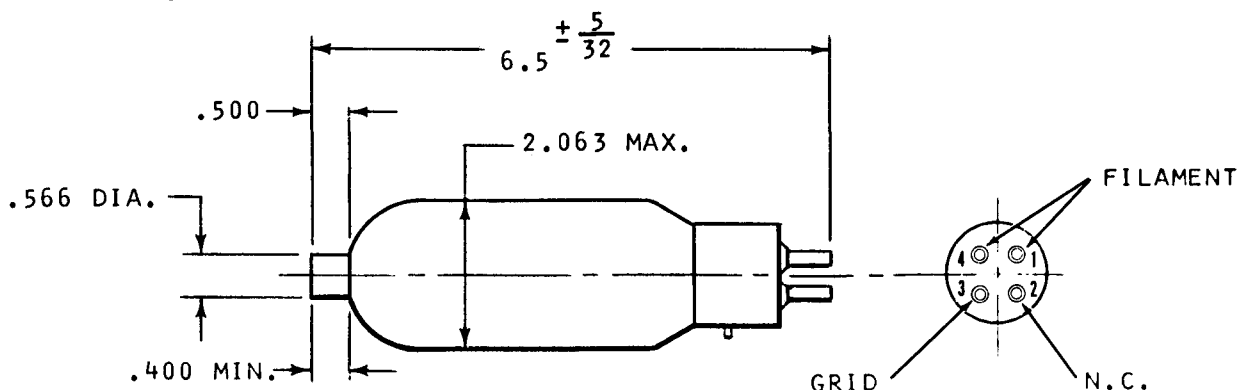
TYPICAL OPERATION (2) TUBES:

D-C Plate Voltage	1,500	2,000	2500 Volts
D-C Grid Voltage	0	0	0 Volts
Peak A-F.			
Grid to Grid Voltage	170	160	210 Volts
Zero D-C Signal Plate Current	60	70	80 Ma.
Max. D-C Signal Plate Current	350	360	400 Ma.
Effective Load Resistance Plate to Plate	12,500	16,500	15,000 Ohms
Max. Signal Driving Power	5.5	7	8.5 Watts
Max. Signal Power Output	380	530	730 Watts

R-F POWER AMPLIFIER AND OSCILLATOR CLASS C TELEGRAPHY

TYPICAL OPERATION (1) TUBE:

D-C Plate Voltage	1,250	1,500	2,000 Volts
D-C Plate Current	140	173	200 Ma.
D-C Grid Voltage	-50	-70	-70 Volts
D-C Grid Current	45	40	30 Ma.
Peak R-F Grid Voltage	140	175	190 Volts
Driving Power	5.6	7	5.5 Watts
Power Output	135	200	300 Watts



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