

*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.

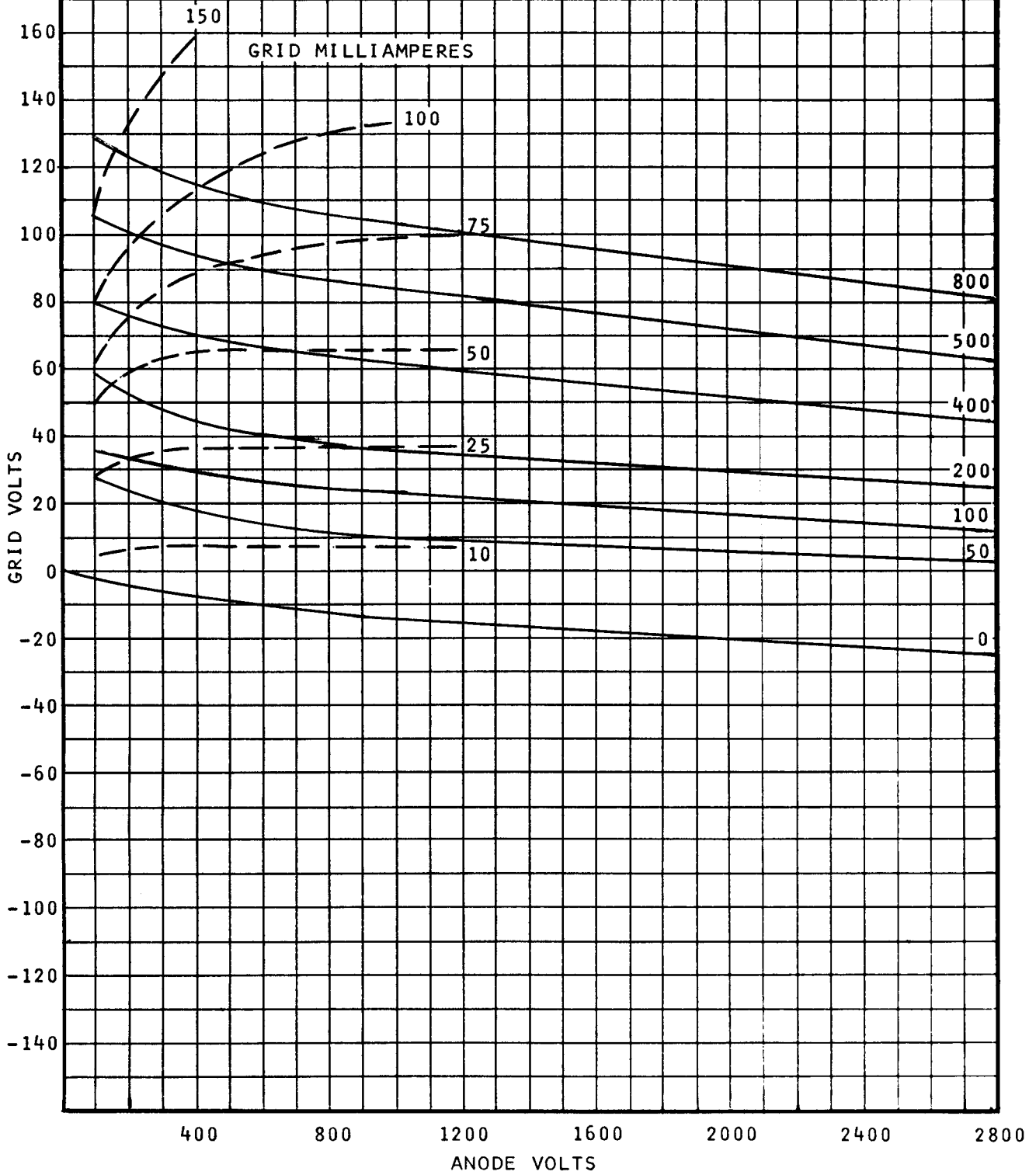
D-C Plate Voltage . . . . .	2500 Volts max.
D-C Grid Voltage . . . . .	0 Volts
Zero Signal D-C Plate Current . . . . .	25 Ma.
D-C Plate Current at Peak Envelope . . . . .	225 Ma.
Average Plate Current . . . . .	160 Ma.
Peak Plate Current . . . . .	675 Ma.
Peak Positive Grid Voltage . . . . .	110 Volts
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.

TYPE 572-B  
CONSTANT CURRENT  
CHARACTERISTICS  
 $E_F = 6.3 = \text{V.A.C.}$



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

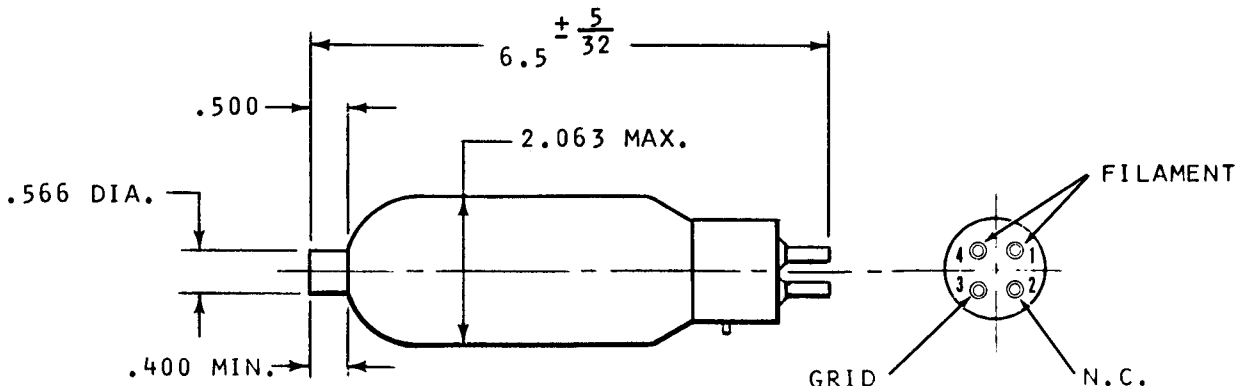
TYPICAL OPERATION (2) TUBES:

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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