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.

SCIENTIFIC INSTRUMENT R&D CO. 525 Lehigh Ave., Union, N. J. USA

Phone - Code 201 - 687-5550

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572 B
Type 811A
and
811 - A/B
Replacement

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

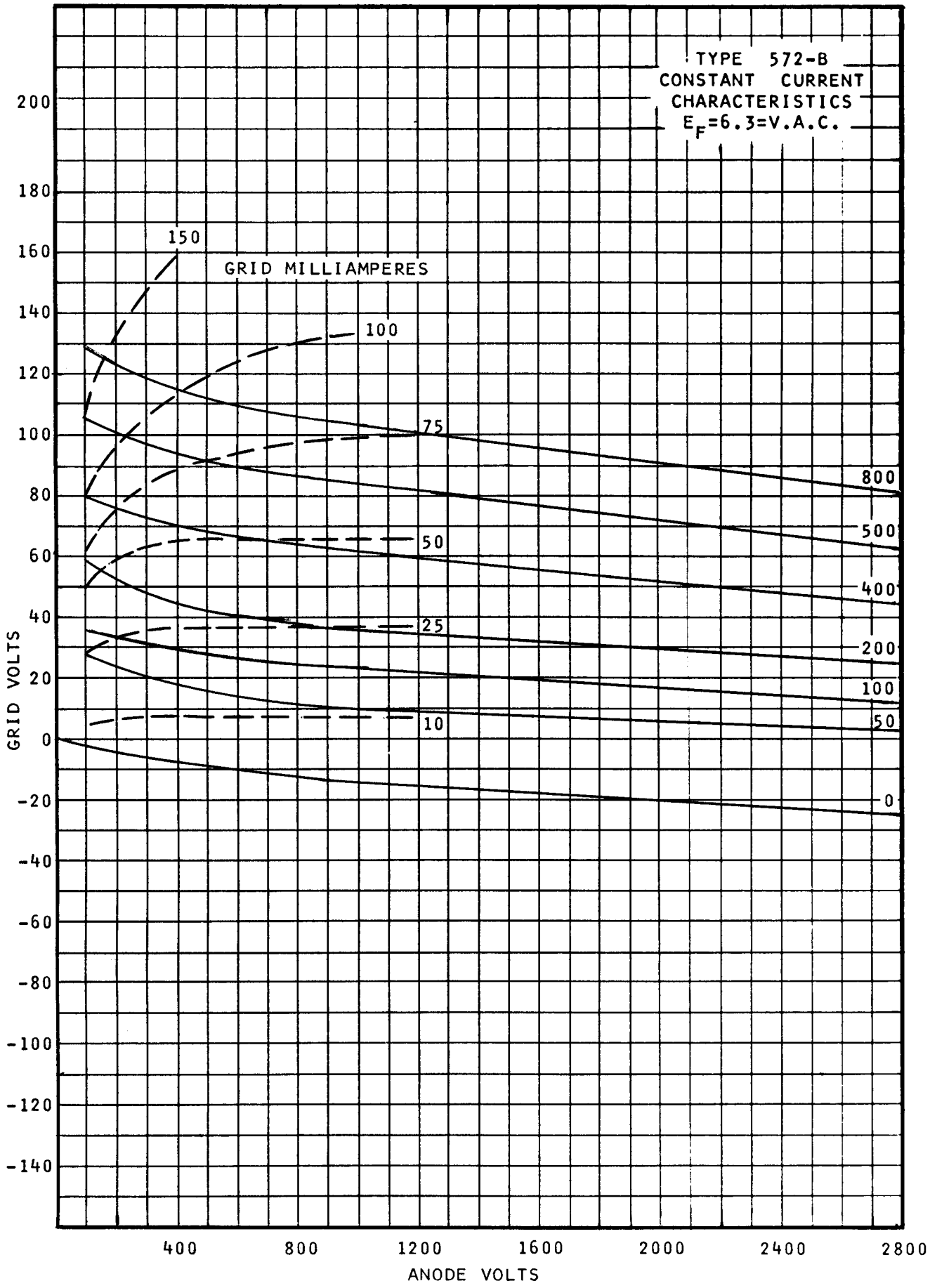
TYPICAL OPERATION:
Two-Tone Modulation @ 30 Mc.

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

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=V.A.C.
GRID MILLIAMPERES
150
100
75
50
25
10
800
500
400
200
100
50
0
GRID VOLTS
200
180
160
140
120
100
80
60
40
20
0
-20
-40
-60
-80
-100
-120
-140
400
800
1200
1600
2000
2400
2800
ANODE VOLTS

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

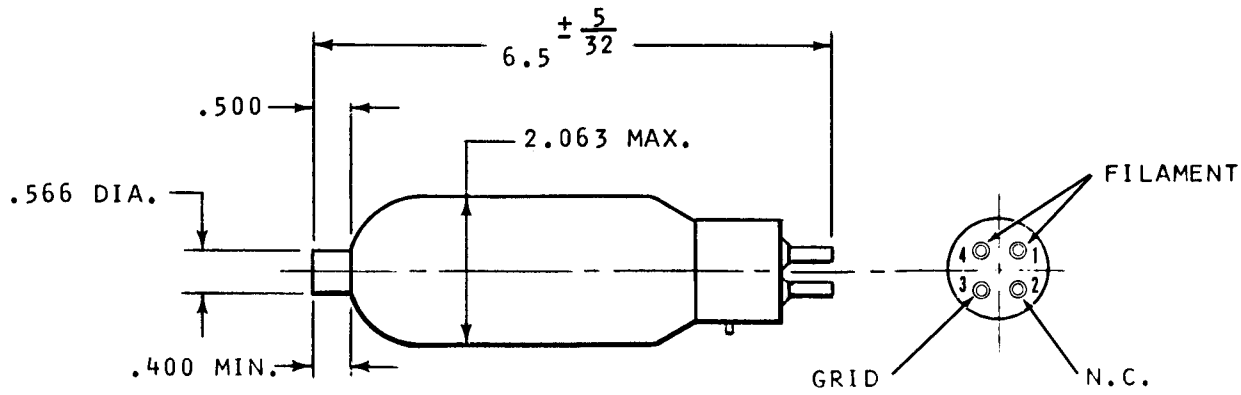
TYPICAL OPERATION (2) TUBES:

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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