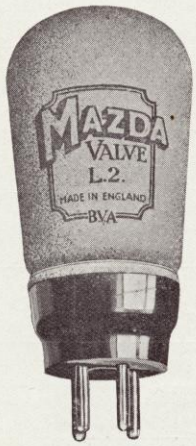
MAZDA

Type L 2

Receiving Valve

[METAL COATED]



RATING.

Filament Voltage	2.0
Filament Amps.	0.1
Maximum Anode Voltage	150
Maximum Anode Current (mA)	10
*Mutual A.C. Conductance (mA/Volt) ...	1.9
*Amplification Factor	19
*Anode A.C. Resistance (ohms)	10,000

* *at* $Ea=100$; $Eg=0$.

DIMENSIONS.

Maximum overall length (including pins)	105 m.m.
Maximum diameter	45 m.m.

PRICE ~~8/6~~ ~~7/-~~ 5/6

GENERAL.

The Mazda L 2 Valve is a three-electrode valve designed for use in a receiver operating from a 2-volt accumulator. The bulb of this valve is coated with metal to prevent the possibility of external interference, and reduce undesirable coupling in the set. Owing to the low A.C. resistance, coupled with high mutual conductance, this valve may be employed in circuits designed to give uniform response over a wide range of frequencies without having to resort to a low gain per stage. The L 2 is designed for direct operation from a 2-volt accumulator and a filament rheostat is unnecessary.

APPLICATION.

Detector.

The L.2. is especially suitable for use as a power detector either with power-grid or anode-bend rectification.

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When used as a power grid detector the grid return should be taken to the positive end of the filament supply.

Low Frequency Amplifier.

The valve may be used with either transformer or resistance-capacity coupling; in the latter case the coupling resistance need not exceed 50,000 ohms.

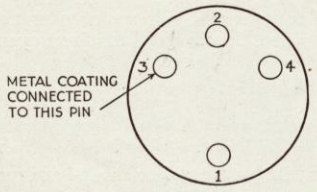
GRID BIAS.

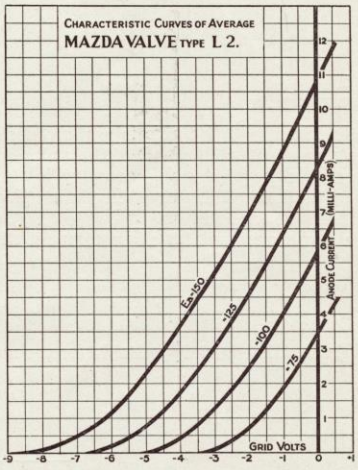
Grid Bias must be used on all stages. The table below should be used as a guide when choosing grid bias values. In the case of anode bend detection the bias required will mainly depend on the strength of the applied signal.

Anode Volts	75	100	125	150
Amplifier	0 to –1.5	–1.5 to –3.0	–1.5 to –3.0	–3.0 to –4.5
Anode Bend Detector ...	–1.5 to –3	–3 to –6	–4.5 to –7.5	–6 to –9

METAL COATING.

The bulb of this valve is coated with metal, the coating being connected electrically to filament pin No. 3. (See diagram.)





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