

MARCONI KT 66

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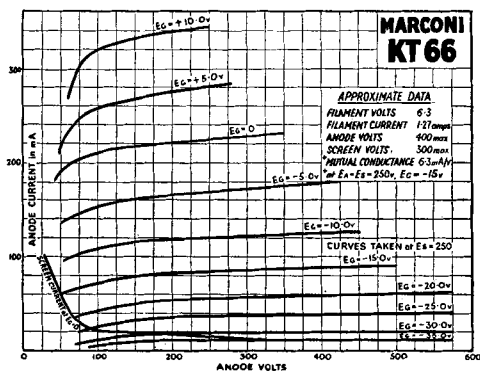
Output Tetrode

Marconi KT66 is an aligned grid tetrode of high efficiency. It is suitable for the output stages of radio receivers or P.A. amplifiers.

Nominal rating, see curve.

Inter-electrode capacities.

| | |
|-----|--------------|
| A—G | 0.9 μ F |
| G—E | 14.8 μ F |
| A—E | 11.5 μ F |



Dimensions : 140 × 57 mm. Octal base : for connections see pages 4-5.

Typical Operating Data.

Single Valve, Class A.

| | | | | | | | |
|--------------------------|-----|-----|-----|-----|-----|-----|------------|
| Anode and screen voltage | ... | ... | ... | ... | ... | ... | 250 |
| Anode current | ... | ... | ... | ... | ... | ... | 85 mA |
| Screen current | ... | ... | ... | ... | ... | ... | 6.3 mA |
| Power output | ... | ... | ... | ... | ... | ... | 7.25 watts |
| Optimum load | ... | ... | ... | ... | ... | ... | 2,200 ohms |
| Bias resistance | ... | ... | ... | ... | ... | ... | 170 ohms |

Single Valve. Triode connected.

| | | | | | | |
|-----------------|-----|-----|-----|-----|------------|------------|
| Anode voltage | ... | ... | ... | ... | 250 | 400 |
| Anode current | ... | ... | ... | ... | 60 | 62.5 mA |
| Bias resistance | ... | ... | ... | ... | 315 | 600 ohms |
| Optimum load | ... | ... | ... | ... | 2,750 ohms | 4,500 ohms |
| Power output | ... | ... | ... | ... | 2.2 | 5.8 watts |

Notes.

The total resistance in the grid cathode path should not exceed 0.5 meg. Stoppers should always be used to avoid possibility of parasitic oscillation and unless negative feedback is applied some form of high note limiter should be incorporated in the anode circuit. The KT66 can be used as a triode when anode and screen are strapped. In this case the stopper resistance should be placed in the screen circuit. It should be noted that this position for the stopper is also often very effective when the valve is used as a tetrode.

(continued overleaf)

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(continued)

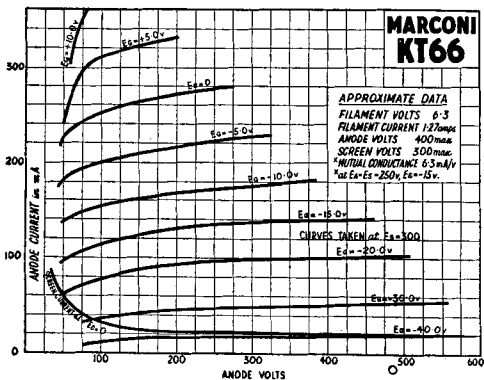
Notes—(contd.)

For class AB₁ working under the 400 volt condition the anode current varies considerably with signals and the H.T. supply should therefore have good regulation. Vacuum type rectifiers U52 are suitable but a choke input circuit should be used.

For higher outputs 2 pairs of valves in parallel may be employed.

Alternatively class AB₂ working may be used. This requires special circuit conditions to keep the distortion low.

A separate supply is necessary to supply the fixed grid bias and the screen voltage. In addition a very low impedance driver stage must be used. A KT63 triode connected and cathode coupled is suitable.



Typical Operating Data.

2 Valves, Class AB₁

| | | |
|--|-----------|-----------|
| Anode voltage, no signal | 258 | 400 |
| Anode voltage, full drive | 250 | 385 |
| Screen voltage, no signal | 258 | 300 |
| Screen voltage, full drive | 250 | 270 |
| Combined anode current, no signal | 162 mA | 125 mA |
| Combined anode current, full drive | 165 mA | 140 mA |
| Combined screen current, no signal | 12 mA | 5 mA |
| Combined screen current, full drive | 20 mA | 14 mA |
| Power Output | 17 watts | 32 watts |
| Anode—anode load | 4000 ohms | 6000 ohms |
| Bias resistance, each valve | 200 ohms | 400 ohms |

2 Valves, Class AB₂

| | No Signal | Full drive. |
|-------------------------------------|-----------|-------------|
| Anode voltage | 400 | 365 |
| Screen voltage | 300 | 290 |
| Combined anode current | 120 mA | 245 mA |
| Combined screen current | 4 mA | 18 mA |
| Grid current | 0 | 1.8 mA |
| Grid bias | -25 | -30 |
| Peak input voltage, per grid | — | 38 |
| Power output | — | 50 watts |
| Anode—anode load | | 2,800 ohms |

Price - - 15/-