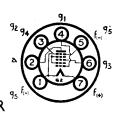


Current Equipment Type

TYPE IR5 MINIATURE BATTERY HEPTODE FREQUENCY CHANGER

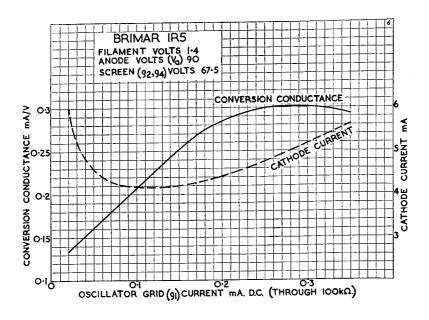


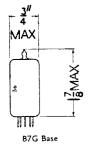
B7G Base

BRIMAR type 1R5 is a miniature battery operated frequency changer particularly suitable for all-wave receivers. The control grid (g_{σ}) has vari-mu characteristics and A.V.C. may be applied. When used in the recommended circuits type 1R5 has a high effective oscillator slope and will operate satisfactorily at frequencies up to 20 Mc/s. Its small size and low filament drain features are particularly applicable to compact lightweight equipment.

| applicable to tol | applicable to compact lightweight equipment. | | | | | | | | | | | | |
|--|--|---------|----------|------|------------|---------|-------|-------|--------|-------------|--------------------------------|----------|--|
| | | | | | RAT | INGS | 5 | | | | | | |
| Filament Voltage | | | | | | | | | | | 1.4 va | alre | |
| Filament Curren | t | | | | | ••• | | | | | 0.05 a | | |
| Anode Voltage | | | | | | | | | | | | its max. | |
| Screen (g_2, g_4) Voltage Cathode Current | | | | | | | | | | | 67.5 volts max. 5.5 mA max. | | |
| | | | | | | | | ••• | | ••• | | | |
| | | | | | | | | | | | | | |
| | | (| OPER | ATIN | G CH | IARA | CTER | ISTIC | s | | | | |
| Anode Voltage | | | | | | | | | 45 | 90 | 90 | volts | |
| Anode Current | | • • • • | | | | | | | 0.7 | 8.0 | 1.6 | m.A | |
| Screen Voltage | | | | | | | | | 45 | 45 | 67.5 | volts | |
| Screen Current | | ••• | ••• | | | | | | 1.9 | 1.9 | 3.2 | mA | |
| Oscillator Grid (g | | | | | | • • • • | | | 0.1 | 0.1 | 0.1 | meg. | |
| Oscillator Grid C | | | | | • • • • | | | | 0.15 | 0.15 | 0.25 | m A | |
| Control Grid (g ₈) | | ge | | | | | | | 0 | 0 | 0 | volts | |
| Anode Impedance | : | | | | | | | | 0.6 | 8.0 | 0.6 | meg. | |
| Conversion Cond | uctanc | е | | | | | | | 0.24 | 0.25 | 0.3 | mA/V | |
| Control Grid Bias | ; | | | | | | | | -9 | -9 | -14 | volts | |
| (For conversion c | onduct | ance c | of 0.005 | mA/V | ') | | | | | | | | |
| • • • • • | | | | | RODE | : CAI | PACIT | ΓANC | ES * | | | | |
| R.F. Input (Contro | | | | | | • • • | | ••• | | ••• | 7.0 | ρF | |
| | | | | | ••• | ••• | | | | 7.0 pF | | | |
| Oscillator Input (Oscillator Grid to other electrodes) | | | | | | | | | 3.8 pF | | | | |
| Control Grid to Oscillator Grid | | | | | ••• | | | | | 0.2 pF max. | | | |
| Oscillator Grid to Anode | | | ••• | ••• | ••• | | | | | | 0.1 | pF max. | |
| Control Grid to A | node | | ••• | ••• | ••• | ••• | | • • • | | | | pF max. | |
| * With no external shield. | | | | | | | | | | | | | |
| | | T | 1 D E :. | | | | | | | | | | |

Type 1R5 is a commercial equivalent to the CV782.

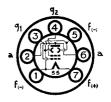




Replacement Type

TYPE 1S4

MINIATURE BATTERY OUTPUT BEAM TETRODE



BRIMAR type 1S4 is one of the range of miniature battery valves introduced for replacement use in existing "personal" receivers. It has now been superseded by type 3S4.

RATINGS

| Filament Voltage | ••• | ••• | | ••• | ••• | | ••• | 1.4 volts |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----------|
| Filament Current | ••• | | ••• | ••• | | ••• | ••• | 0.1 amp. |

For characteristics refer to type 3S4 (parallel filament connection).

Type IS4 is a commercial equivalent to the CV783