



Fig. 1—Circuit diagram of 10W amplifier

Resistors and capacitors in the left-hand channel are numbered 1, 2, 3, etc.; corresponding components in the right-hand channel are numbered 101, 102, 103, etc.

Circuit ref.	Value	Description	Rating (V)
C1	150 pF	+	+
C2	1000 pF	+	+
C3	680 pF	+	+
C4	4700 pF	+	+
C5	4 μF	electrolytic	350
C6	0.05 μF	paper	350
C7	0.5 μF	paper	350
C8	100 μF	electrolytic	6
C9	0.1 μF	paper	150
C10	0.25 μF	paper	350
C11	0.25 μF	paper	350
C12	100 pF	+	+
C13	100 pF	+	+
C14	100 pF	+	+
C15	100 μF	electrolytic	350
C16	100 μF	electrolytic	25
C17	50 μF	electrolytic	350

+ Silvered mica, polyester or ceramic, ±5%
 * Printed-circuit version:
 C14, C114: 32 μF tubular electrolytic
 C17: 50 μF single electrolytic
 Wired version:
 C14, C114, C117: 3 × 50 μF triple electrolytic
 Mullard EF86 (two); ECL86 (four); GZ34
 Valves
 Mains transformer (two); ECL86 (four); GZ34
 Valves

Resistors

Circuit ref.	Value	Tolerance (±%)	Rating (W)
RV1 and RV101	2 × 2 MΩ	logarithmic	potentiometer
R2	680 kΩ	5	1
RV3 and RV103	2 × 2 MΩ	logarithmic	potentiometer
R4	68 kΩ	5	1
RV5	2 MΩ	logarithmic	potentiometer
RV6 and RV106	2 × 2 MΩ	antilogarithmic	potentiometer
R7	1 MΩ	5	1
R8	100 kΩ	5	1
R9	100 kΩ	5	1
R10	150 kΩ	5	1
R11	150 kΩ	5	1

Valveholders

Printed-circuit version:
 B9A (novel) nylon-loaded with screening skirt
 (six for EF86 and ECL86), McMurdo X9A/89C
 I.O. (International Octal) (for GZ34), McMurdo
 B8/U
 Wired version:
 B9A (novel) nylon-loaded with screening skirt
 (six for EF86 and ECL86), McMurdo X9A/89C
 I.O. (International Octal) (for GZ34), McMurdo
 B8/U

Capacitors

Circuit ref.	Value	Tolerance (±%)	Rating (W)
R12	560 kΩ	5	1
R13	150 kΩ	5	1
R14	1 MΩ	5	1
R15	100 kΩ	5	1
R16	100 kΩ	5	1
R17	100 kΩ	5	1
R18	27 kΩ	5	1
R19	33 kΩ	5	1
R20	1 MΩ	5	1
R21	1 MΩ	5	1
R22	4.7 kΩ	5	1
R23	4.7 kΩ	5	1
R24	33 kΩ	5	1
R25	300 Ω	5	1
R26	300 Ω	5	1
R27	47 Ω	5	1
R28	47 Ω	5	1

Output Transformer

Primary impedance, 9 kΩ, tapped at 20% for distributed loading
 Primary inductance ≥ 90H
 (If the inductance is greater than about 120H, the l.f. stability will deteriorate.)
 Leakage inductance (pri. to sec.) ≤ 21mH
 Primary resistance per half ≤ 265Ω
 Resonant frequency ≥ 50kc/s

Mains Transformer

Primary: 10-0-200-220-240V
 Secondary: H.T. 275-0-275V, 140mA
 L.T. 3.15-0-3.15V, 3-35A
 (for EF86, ECL86 and indicator lamp)
 0-5V, 2A (for GZ34)

Printed Circuit Boards

Technograph

Miscellaneous

Mains input plug and socket, 3-pin. Bulgin P.360
 Mains switch, N.S.F., 8370/B3
 Fused voltage selector
 Printed-circuit board VSP.393/0 + P.62/2
 Wired, Clix CISP/2 + P.62/2
 Auxiliary mains plug and socket, 3-pin. Bulgin P.438
 H.T. supply plug and socket, 6-pin. Bulgin P.194
 Fuseholder, Belling Lee, L.356
 Fuse 250mA
 Lampholder. Bulgin D675/1/Red
 Indicator lamp. 6.3V, 0.15A, L.E.S.
 Input socket 2-pin (two). Belling Lee, L.789/CS
 Output socket, 2-pin (two). Panton, 313263
 (plug, 313260)
 Tagboard 10-way (two). Denco
 Tagboard 5-way (two). Denco
 Tagstrip 7-way, centre-tap only. Denco
 Selector switch, 3-pole, 3-way, miniature
 Loudspeaker phasing switch, 2-pole, 2-way.
 Pointer knobs (five). Bulgin K.370
 N.S.F. 8373/B3