



Notes:

- Overall gain range: 0 dB to 66 dB
- Quiescent current: 25 mA typical
- All resistors metal film 1%, 0.5 W unless otherwise noted
- C1 and C2 polypropylene or polystyrene film
- C3, C4 and C5 rated for 10 V
- C6 and C9 rated for 10 V
- C7, C8, C12-C19, C22 and C23 ceramic NP0/COG or film
- C10 and C11 rated for 6.3 V
- C20, C21, C24 and C25 rated for 25 V
- C26 and C27 polyester film
- Trim R37 and R43 for best CMRR at 100 Hz
- Trim C15 and C19 for best CMRR at 20 kHz
- Replace Q1-Q4 with 2SA970BL for very low noise
- L1, R1, R2, C22 and C23 optional for best RFI protection
- Minimise stray capacity at Q1-Q4 emitter and gain switching network (R18-R29) for best stability
- Careful layout design may allow C7 and C8 to be reduced to 15 pF or 10 pF for lower distortion