



Notes:
Overall gain range: 30 dB to 65 dB
Quiescent current 48 mA typical

All resistors metal film 1%, 0.5 W unless otherwise noted

C1 and C2 polypropylene or polystyrene film

C3 rated for 10 V

C4, C5 and C23-C26 polyester film

C6, C7 and C10 rated for 10 V

C8, C9, C11 and C12 ceramic NPO/COG or film

C13 and C22 rated for 25 V

Trim R13 for lowest differential DC offset between U1 and U2 output at highest gain

Trim R40 and R46 for best CMRR at 100 Hz

Trim R15 and R18 for best CMRR at 20 kHz

L1, R1, L2, C19 and C20 optional for best RTI protection

Minimize stray capacity at Q1-Q4 emitter and gain switching network (R21-R32) for best stability

Careful layout design may allow C5 and C9 to be reduced to 22 pF for lower distortion

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