HIGH OUTPUT LINE DRIVER FOR SINGLE ENDED POWER SUPPLY

GAIN 1.0X to 8.0X or 4 dB to 18 dB
INPUT IMPEDANCE 2.5 kΩ to 12.5 kΩ
OUTPUT IMPEDANCE 50 Ω
MAXIMUM OUTPUT APPROX +24 dBu (WITH +24 V SUPPLY)

NOTES

THIS CIRCUIT MAY BE USED WITH A SUPPLY UP TO +40 VDC
A1/A2 MUST BE LOW OFFSET VOLTAGE/CURRENT TYPE SHOWN TO PREVENT EXCESS DC ACROSS T1
ALL RESISTORS ARE ±1% 1/4W METAL FILM TYPES, RAOERSTEIN MK2-1 OR EQUIVALENT
D1 THRU D4 ARE HIGH CONDUCTANCE DIODES, SUCH AS IN4448 OR IN4002
C2, C3, AND C4 ARE POLYPROPYLENE, POLYSTYRENE, OR NPO/000 ceramic types
X1 AND X2 ARE OUTPUT LOAD ISOLATORS, JENSEN JT-0LI-3 (3.5 μH & 39 Ω)
USE GOOD HIGH FREQUENCY CONSTRUCTION TECHNIQUES.
(USE OF A GROUND PLANE IS HIGHLY RECOMMENDED)