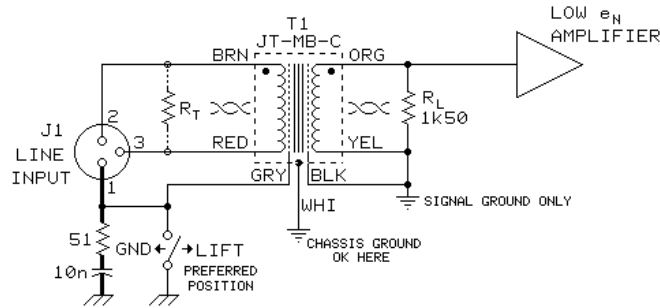


JT-MB-C IN LOW NOISE, HIGH ISOLATION LINE RECEIVER FOR LO-Z SOURCES



THE JT-MB-C IS A 1:1 TRANSFORMER DESIGNED FOR VERY HIGH COMMON-MODE REJECTION (130 dB IS TYPICAL @ 60 Hz). ITS BANDWIDTH EXTENDS FROM 1.5 Hz TO 100 kHz, MAKING IT SUITABLE FOR MANY INDUSTRIAL APPLICATIONS AS WELL AS HIGH QUALITY AUDIO. IT REQUIRES THE SECONDARY LOAD, R_L SHOWN ABOVE, FOR PROPER DAMPING AND TRANSIENT RESPONSE. THIS MAKES THE INPUT IMPEDANCE ABOUT 1.6 k Ω , WHICH IS SUITABLE FOR SOURCE IMPEDANCES UP TO ABOUT 200 Ω WITH MINIMAL LOADING LOSSES. R_T MAY BE ADDED IF LINE TERMINATION IS REQUIRED. THE AMPLIFIER SHOULD BE OPTIMIZED FOR LOWEST NOISE FROM A 100 Ω TO 300 Ω SOURCE IMPEDANCE.

NOTES

1. R_T IS OPTIONAL LINE TERMINATION RESISTOR, TYPICALLY 50 Ω TO 150 Ω
2. ALL RESISTORS ARE $\pm 1\%$ 1/4w METAL FILM TYPES, ROEDERSTEIN MK2-1 OR EQUIVALENT VALUES IN OHMS (1k50 = 1.50k)
3. SEPARATELY TWIST T1 PRIMARY AND SECONDARY LEADS (SHOWN AS ∞) TO MINIMIZE ELECTROMAGNETIC PICKUP

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