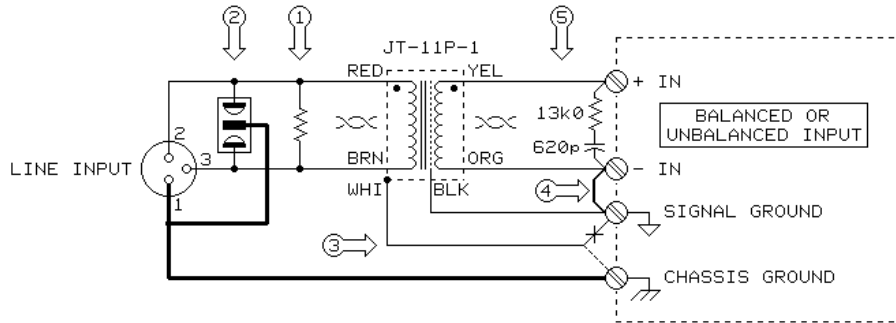


JT-11P-1 RECEIVER FOR VERY LONG LINE APPLICATIONS



NOTES

1. WITH AUDIO LINES LONGER THAN ABOUT 500 FEET, TRANSMISSION LINE EFFECTS MAY BEGIN TO APPEAR, REQUIRING SOME TERMINATION TO DAMP THEM. 50 TO 100 Ω SOURCE, AND 150 TO 500 Ω TERMINATION IMPEDANCES ARE COMMON. VALUES ARE BEST OPTIMIZED EXPERIMENTALLY FOR BEST SQUARE WAVE RESPONSE.
2. VERY LONG LINES ARE ALSO PRONE TO HIGH VOLTAGE TRANSIENTS INDUCED BY NEARBY LIGHTNING STRIKES. A 250 VOLT GAS DISCHARGE SUPPRESSOR* IS RECOMMENDED TO CLAMP THEM BECAUSE IT DOESN'T EXHIBIT THE DISTORTION PRODUCING NON-LINEARITIES OF MOVs OR ZENERS. THE CHASSIS OF THE RECEIVING EQUIPMENT MUST BE CONNECTED TO A LOW IMPEDANCE EARTH GROUND FOR THE SUPPRESSOR TO BE EFFECTIVE.
3. IF POSSIBLE, INSULATE THE TRANSFORMER CASE FROM THE CHASSIS WHEN MOUNTING AND CONNECT THE CASE (WHI) TO SIGNAL GROUND. ALTERNATE MOUNTING TO AND/OR CONNECTION TO THE CHASSIS IS ACCEPTABLE.
4. BALANCED INPUTS SHOULD BE "FORCED" TO UNBALANCED OPERATION WITH THE JUMPER SHOWN.
5. THE RC DAMPING NETWORK SHOWN MUST BE USED FOR ALL AMPLIFIER INPUT IMPEDANCES OVER 10 k Ω .
6. SEPARATELY TWIST PRIMARY AND SECONDARY LEADS AS INDICATED TO REDUCE PICKUP OF MAGNETIC FIELDS. KEEP SECONDARY LEADS SHORT AND ROUTE AWAY FROM PRIMARY LEADS TO MAXIMIZE COMMON-MODE REJECTION.

*C.P. CLARE PART #PMT3(310)25010 IS TYPICAL OF AVAILABLE PARTS

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