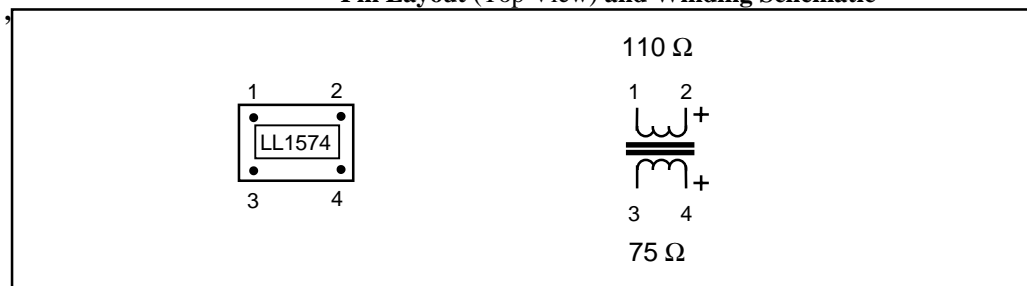


AES - DATS conversion transformer LL1574

LL1574 is a pulse transformer designed for impedance matching between 110 Ω and 75 Ω systems. The transformer has a large amorphous metal core which results in low copper resistance, high signal tolerance and low internal capacitance.

Turns ratio:	1 : 1.2
Impedance ratio	75 : 110
Dims: (Length x Width x Height above PCB (mm))	15 x 9 x 11

Pin Layout (Top View) and Winding Schematic



Spacing between pins:	5.08 mm (0.2")
Spacing between rows of pins:	10.16 mm (0.4")
Rec. PCB hole diameter:	1.5 mm
Weight	2 grams
Core	Amorphous core material
Static resistance of primary (Pins 1 - 2):	1.0 Ω
Static resistance of secondary(Pins 3 - 4):	1.1 Ω
Maximum primary signal • time before saturation:	160 μVs at 8 volts p-p.
Maximum no load current at above conditions:	$\hat{I} = 3 \text{ mA}$
Primary main inductance (tuned at 10 kHz, 2 V):	40mH
Primary leakage inductance:	1.3 μH
Total coupling capacitance:	< 15 pF
Winding capacitance:	< 1 pF
Isolation between windings:	2 kV
Source impedance:	0 -- 500 Ω
Optimum load impedance:	200 Ω

Application example:

Interface between 110 ohms AES/EBU and 75 ohms DATS/AES3id networks

