

Features:

- * Operating transmission rates: 1 to 7 Mbps
- * Controlled rise time: 25nsec maximum
- * High isolation voltage: 2kV

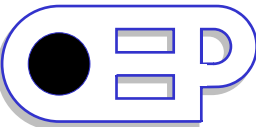
Uses:

- * Ground loop isolation
- * Impedance matching
- * Short circuit protection
- * Common mode noise/interference rejection
- * High frequency rejection
- * DC blocking

The LAD4613 is capable of operating from 0.1 to 24.6MHz which covers the audio data rate of 28kHz to 192kHz after biphase-mark encoding. Transformers used for digital audio should have low interwinding capacitance as this parasitic effect couples the primary and secondary windings thus degrading the isolation between the windings with increasing frequency. This energy appears in the form of common mode noise on the receive side ground and has the potential to degrade analogue performance.

Ratio	1 : 1
Primary Inductance (@100kHz)	2.5mH +/-20%
Leakage Inductance	0.5µH max.
Rise Time	25nsec max.
O/P Voltage-Time Product	20V µsec max.
Bandwidth	100kHz - 55MHz typ. @ 3dB
Return Loss	100kHz - 10MHz min. @ 20dB
Isolation	2kV rms min.
Part No.	LAD4613

Electrical specifications at 25°C. Operating temperature range 0°C to +70°



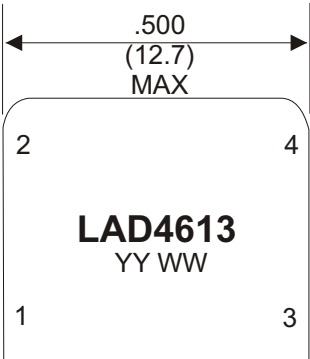
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DESCRIPTION
1 to 1 digital audio transformer
Scale: NTS

All dimensions in mm unless stated otherwise

ISSUE	DATE	DRAWN	CHECKED
1	11/01/08	MZ	
2	07/06/10	CS	
3	29/11/10	CS	
4	19/01/12	CS	

DRAWING NUMBER
LAD4613



Top view
YY WW = date code

