## 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°

Walters Group Holdings Ltd. Unit 5, Oxonian Park, Langford Locks, Kidlington, Oxfordshire. OX5 1FP Tel: (01865) 855085 Fax: (01865) 855075 Website: www.oep.co.uk Scale:	DESCRIPTION	ISSUE	DATE	DRAWN	CHECKED	DRAWING NUMBER
	1 to 1 digital audio transformer	1	11/01/08	MZ		
		2	07/06/10	CS		Ι ΔΠ/613
		3	29/11/10	CS		
	Scale: NTS All dimensions in mm unless stated otherwise					

RoHS

OMPLIAN