

**Feature**

- ◆ Designed for use with AD20MSP910 transceiver IC.
- ◆ Designed to support modem , router and switch application.
- ◆ Isolation Voltage 1500Vrms.

**Specifications@25°C**

Parameters	Condition		Min.	Typ	Max.	Unit
Turns ratio	Pin (1-4) : (10-7)			1 : 1±3%		
Impedance	Pin(1-4) & (10-7)			135		Ω
Inductance	@100KHz , 100mV	Pin (1-4)	4.5	5	5.5	mH
Leakage Inductance	@100KHz , 100mV	Pin (1-4)			16.0	μH
DCR		Pin(10-7)			3.0	Ω
		Pin(1-4)			3.0	Ω
Return loss	@40KHz-300KHz		16.5			dB
Insertion loss	@100KHz				0.5	dB
Harmonic Distortion	@30KHz,4Vp-p				80.0	dB
Frequency Response	@30KHz-1.1MHz		0		1.0	dB
Hi-pot	1 minute	Pin(1-4) to Pin(10-7)	1500			Vrms

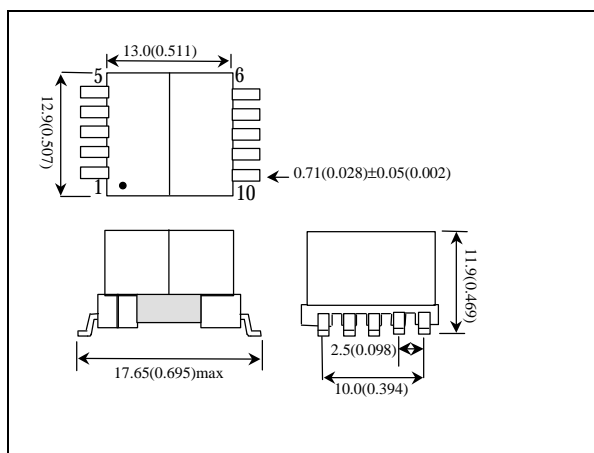
**Description**

The PS106724 has been specifically designed for implementation of analog interface in ADSL over ISDN application. ADSL service is dedicated , point to point public network access technology that adopt a line code known as DMT technology and deliver asymmetric upstream speed at data rate of 16 up to 640kbps and downstream speed at data rate of 1.5 up to 8Mbps over copper twist pair wire respectively.

The PS106724 provide precise and stable line inductance to compensate for the echoes signal on the line .

With low leakage inductance and superior distortion characteristic , this device achieve optimal distance reach performance under all of cable condition.

This device also provide high voltage isolation for protecting from static charge damage which may occur on twist pair wire .

**Dimension**

Unless otherwise specified , all tolerances are mm(inch) ± 0.25(0.01)

**Schematic**