YCL

PS102725

HDSL Transformers

Feature

- ♦ Designed for use with BT8921/BT8970 IC's at 1168 kbps rates..
- ♦ Isolation Voltage 2050Vrms.
- ♦ Excellent Longitudinal balance.

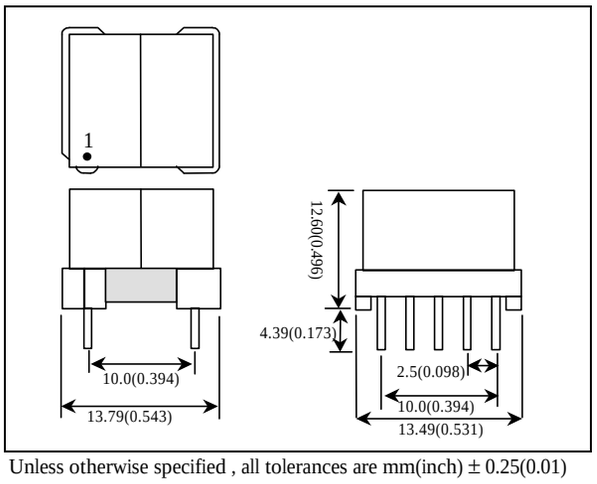
Specifications@25^{0}C

Parameters	Condition		Min.	Typ	Max.	Unit
Turns ratio	Pin (1-5) : (9-7)			2:1±1%		
Inductance	@10KHz , 100mV	Pin (1-5)		2.0±6%		mH
Leakage Inductance	@100KHz , 100mV	Pin (1-5)			11.0	μH
DCR		Pin(1-5)			2.5	Ω
		Pin(9-7)			1.0	Ω
DC Current			160			mA
Return loss	@40KHz-300KHz		16.5			dB
Insertion loss	@40KHz				0.5	dB
Longitudinal balance	@40KHz-300KHz		50.0			dB
Harmonic Distortion	@20KHz,4.5Vp-p				70.0	dB
Frequency Response	@33KHz-110KHz			±0.1		dB
Hi-pot	1 minute	Pin(1-5) to Pin(9-7)	2050			Vrms

Description

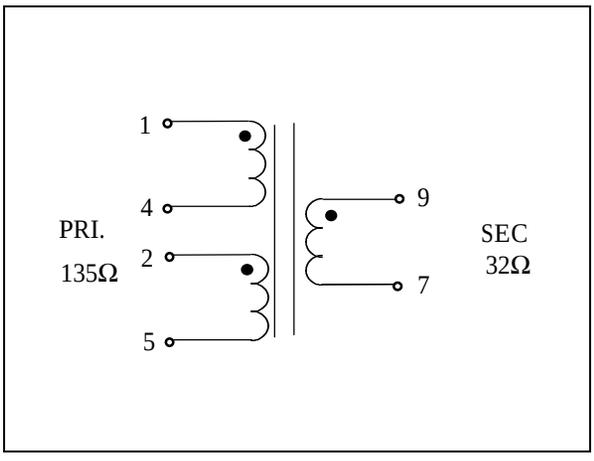
The PS102725 has been specifically designed for implementation of analog interface in HDSL application.
HDSL service is dedicated , point to point public network access technology that adopt a line code known as 2B1Q and deliver asymmetric T1 speed 1.544Mpbs and E1 speed 2.048Mpbs over two and three copper twist pair wire respectively.
The PS102725 provide precise and stable line inductance to compensate for the echoes signal on the line .
With low leakage inductance , superior distortion characteristic and the ability of carrying 160mAdc , this device achieve optimal distance reach performance.
This device also provide high voltage isolation for protecting from static charge damage which may occur on line cable.

Dimension



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

Schematic



RDPS-PS012(R0/8/99)