

QUAD 10/100Base TX Transformer SMT type

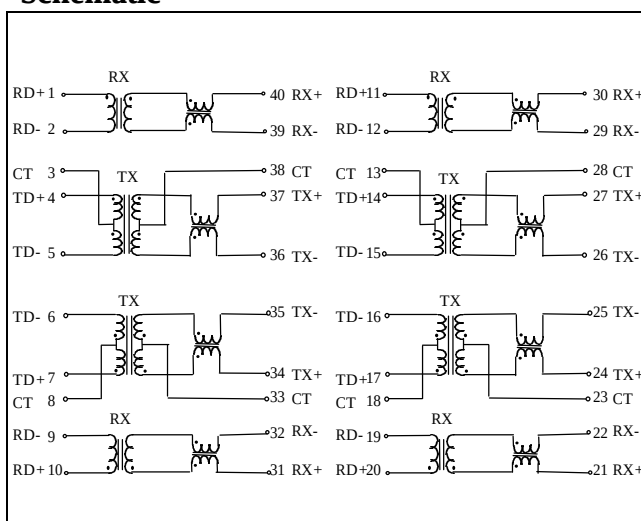
Feature

- ◆ Designed for use with Broadcom BCM5208 10/100Mbps PHY transceiver.
- ◆ Primary inductance 350 μ H min. with 8mA DC bias.
- ◆ Designed to meet IR 235 $^{\circ}$ C peak requirement.
- ◆ Pick and place compatible.

Specifications

Parameter	Condition	Min.	Typ.	Max.	Unit
Inductance	Pin(37-36)&Pin(40-39)	350	*note1		μ H
Turn Ratio	Pin(4-5) : (37-36)		1 : 1		
	Pin(1-2) : (40-39)		1 : 1		
Insertion loss	@1-100MHz			1.0	dB
Return loss	@1-30MHz	16			dB
	@30-60MHz	*note2			dB
	@60-80MHz	10			dB
Cross talk	@1-60MHz	40			dB
	@60-100MHz	38			dB
CMRR	@1-60MHz	45/40			dB
	@60-100MHz	40/35			dB
Voltage Isolation	1 minute	1500			Vrms

Schematic



Note 1: Measure at 8mA_{dc} over operating temperature 0~70 $^{\circ}$ C

Note 2: Greater than 16-20 log(f/30 MHz)dB

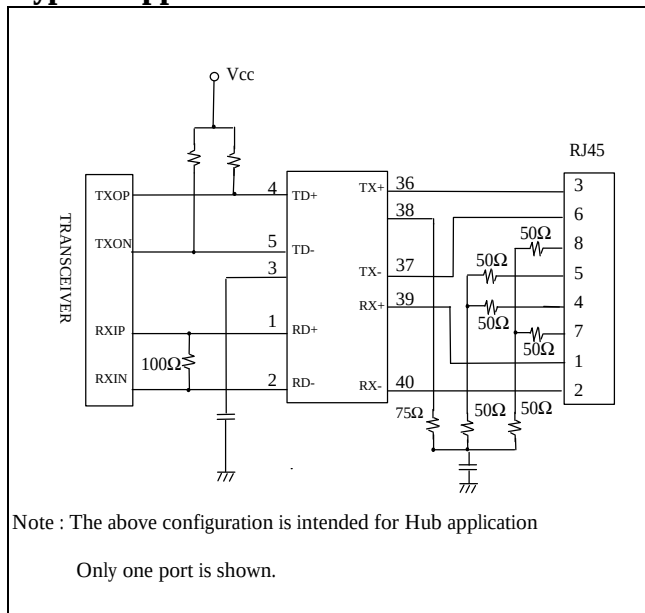
Description

The PH406418 is a magnetic module that is specifically designed for the implementation of analog interface in Fast Ethernet application. With a minimum inductance of 350 μ H under all network operating conditions, the PH406418 minimize the baseline wander effect which can cause receiver error, particularly in less robust design, at long line length.

The PH406418 integrated high impedance common mode choke and will significantly suppress common mode and differential mode noise which may contribute to radiated and conducted emission.

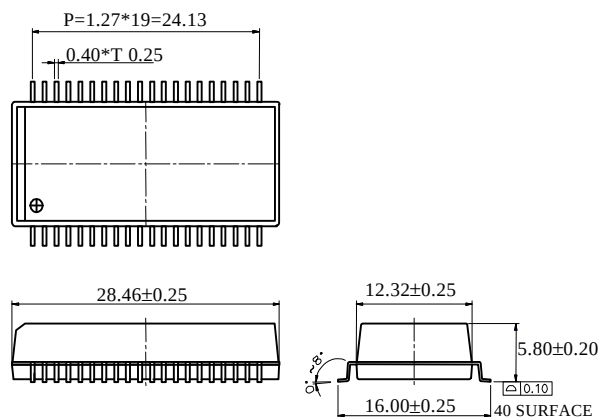
The PH406418 provide high voltage isolation to protect against static charge on the twisted pair line.

Typical Application

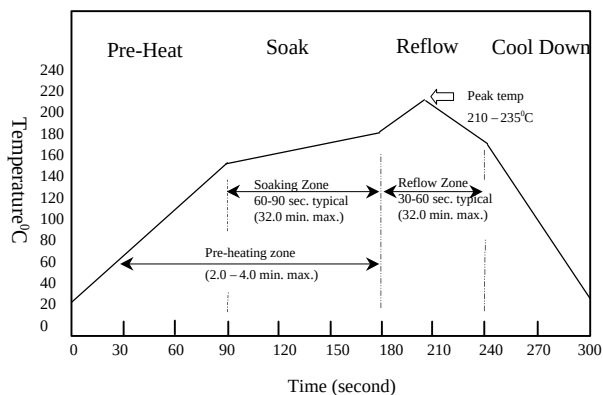


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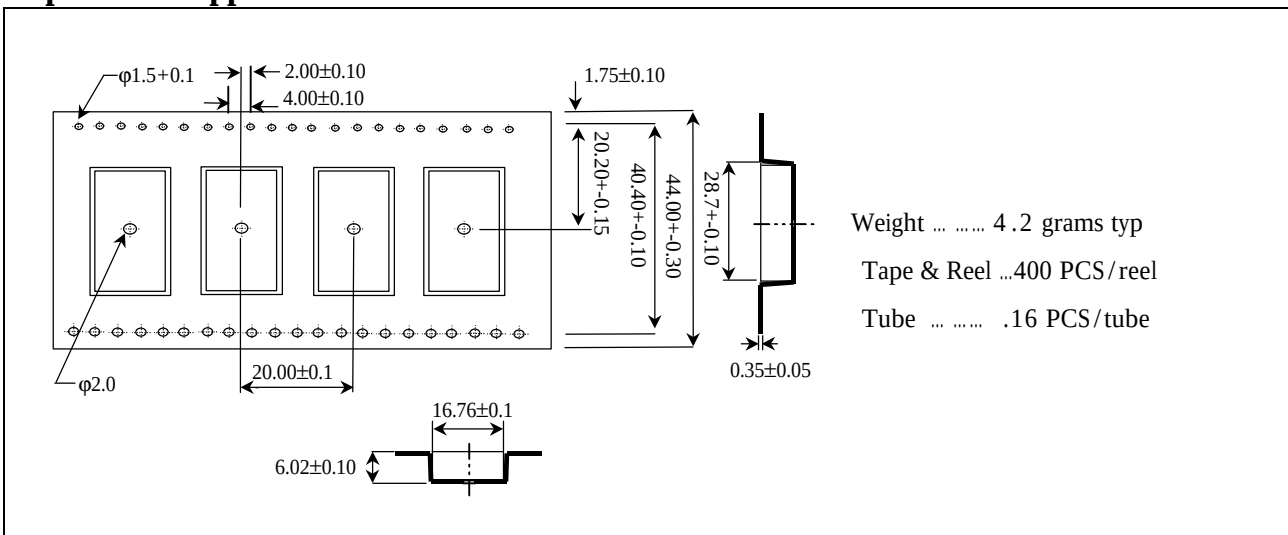
Dimension



Reflow Soldering Profile



Tape & Reel Applications



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