

Feature

- ◆ Designed to meet IEEE802.3u requirement.
- ◆ Primary inductance 350μH min. with 8mA DC Bias
- ◆ Designed for use with AMD79C872 chipset.
- ◆ Designed to meet IR 235°C peak requirement.

Specifications

Parameter	Condition	Min.	Typ.	Max	Unit
Inductance	Pin(37-36)&Pin(40-39)	350	*Note 1		μH
Turn Ratio	Pin(4-5) : (37-36)		1 : 1.414		
	Pin(1-2) : (40-39)		1 : 1		
Insertion Loss	@1-100MHz			-1.0	dB
Return Loss	@1-30MHz	-16			dB
	@30-60MHz		*Note 2		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

Note 1: measured at 8mA_{dc} over operating temperature 0~70°C

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

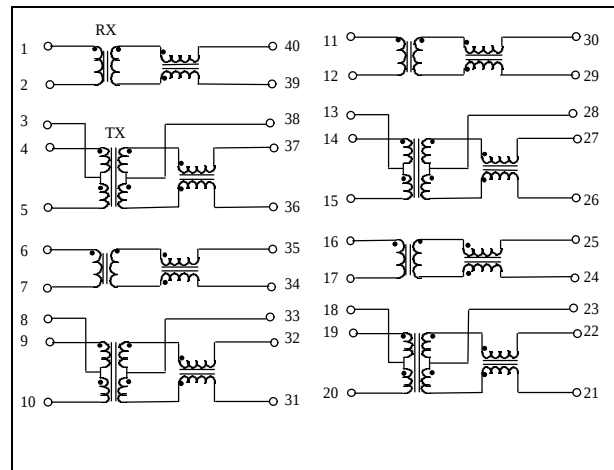
Description

The PH406094 is a magnetic module that is specifically designed for the implementation of analog interface in Fast Ethernet application. With a minimum inductance of 350uH under all network operating conditions, the PH406094 minimize the baseline wander effect which can cause receiver error , particularly in less robust design , at long line length.

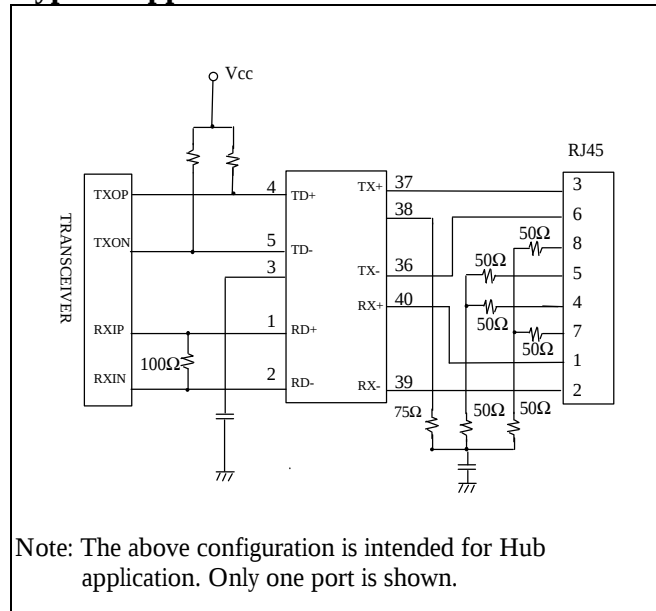
The PH406094 integrated high impedance common mode choke and will significantly suppress common mode and differential mode noise which may contribute to radiated and conducted emission.

The PH406094 provide high voltage isolation to protect against static charge on the twisted pair line.

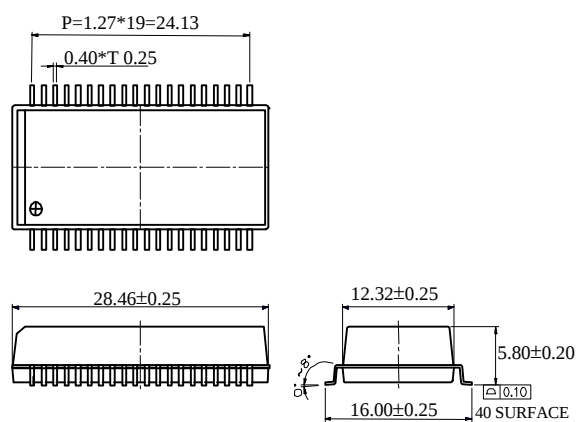
Schematic



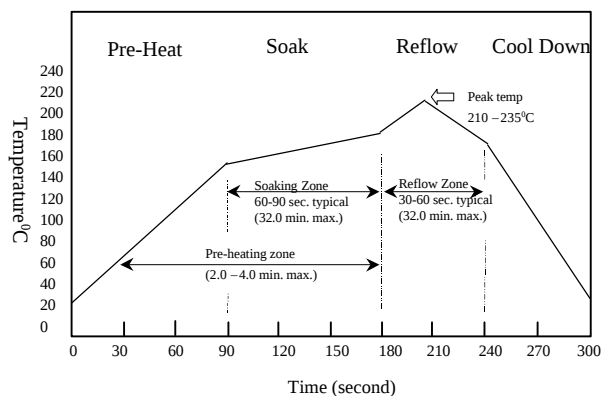
Typical Application



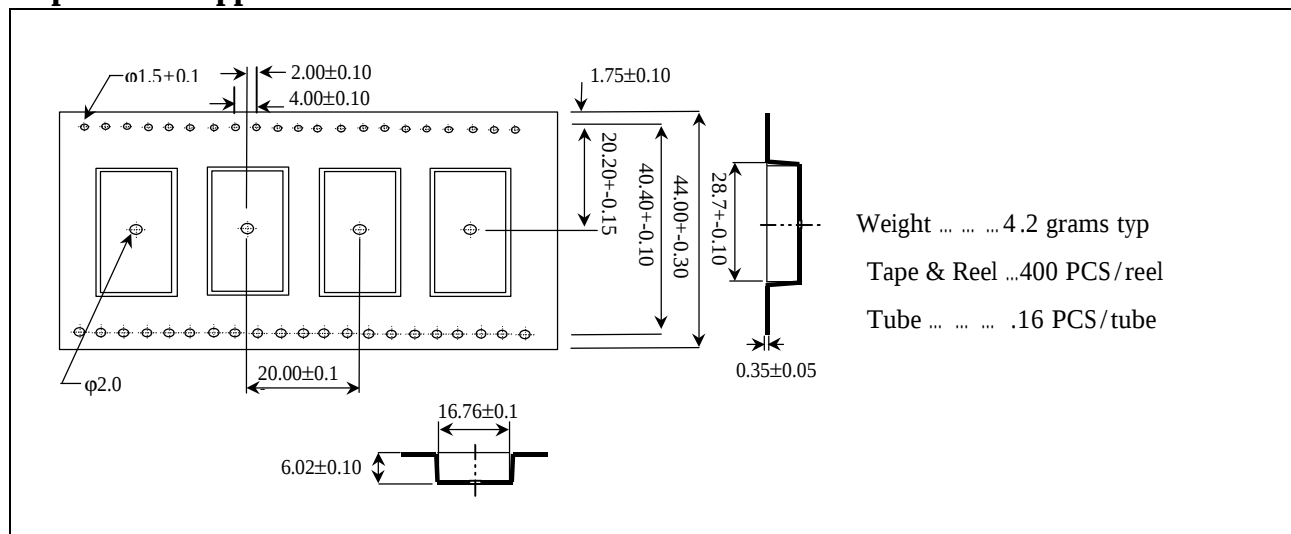
Dimension



Reflow Soldering Profile



Tape & Reel Applications



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