20PMT04

10/100Base Transformer module

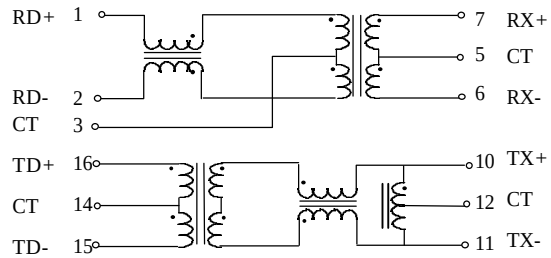
Feature

- ♦ Designed for all 1 : 1 turn ratio on TX side.
- ♦ Primary inductance 350µH min. with 8mA DC Bias
- ♦ Designed to meet IEEE802.3u requirement.
- ♦ Designed to meet IR 235^{0}C peak requirement.

Specifications

Parameter	Condition	Min.	Typ.	Max	Unit
Inductance	Pin(10-11) & Pin(7-6)	350	*Note 1		µH
Turn Ratio	Pin(16-15):(10-11)		1 : 1		
	Pin(1-2) : (7-6)		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

Schematic



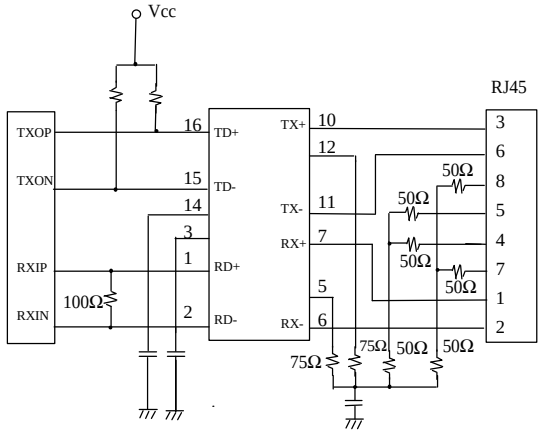
Note 1: measured at 8mAdc over operating temperature 0~70^{0}C

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

Description

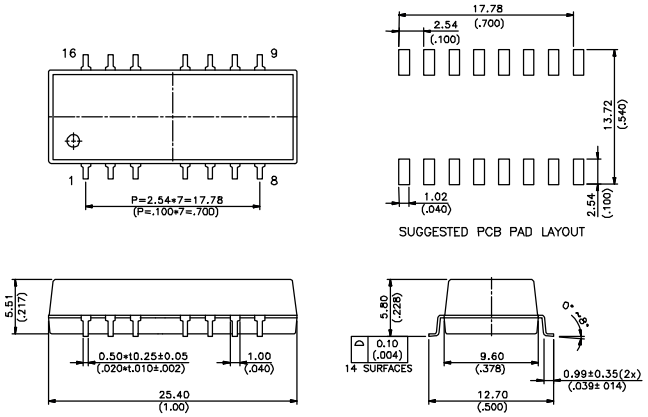
The20PMT04 is a magnetic module that is specifically designed for the implementation of analog interface in Fast Ethernet application. With a minimum inductance of 350uH under all network operating conditions, the 20PMT04 minimize the baseline wander effect which can cause receiver error , particularly in less robust design , at long line length.
The 20PMT04 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 20PMT04 provide high voltage isolation to protect against static charge on the twisted pair line.

Typical Application

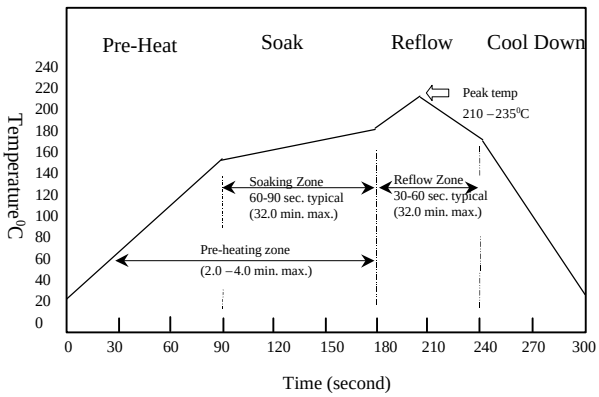


Note: The above configuration is intended for Hub application.

Dimension

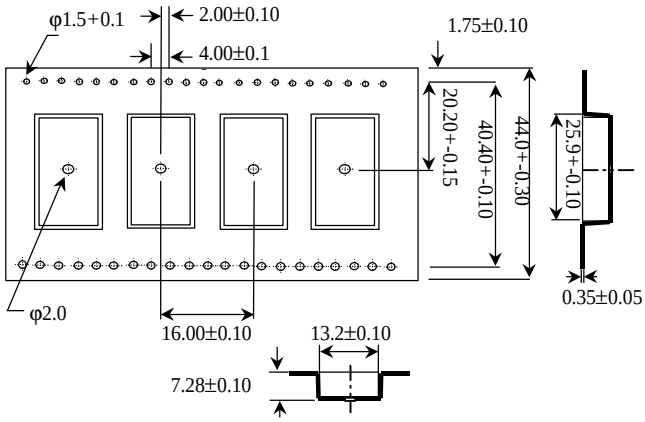


Reflow Soldering Profile



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

Tape & Reel Applications



Weight ....3.0 grams typical
Tape & reel 500/reel
Tube 19/tube