YCL

PH166395

10/100Base TX Transformer SMT type

Feature

- ♦ Designed to meet IEEE802.3u Requirement.
- ♦ Designed to meet IR 235^{0}C Peak Requirement.
- ♦ Primary inductance 350µH min. with 8mA DC bias.
- ♦ Pick and place compatible.

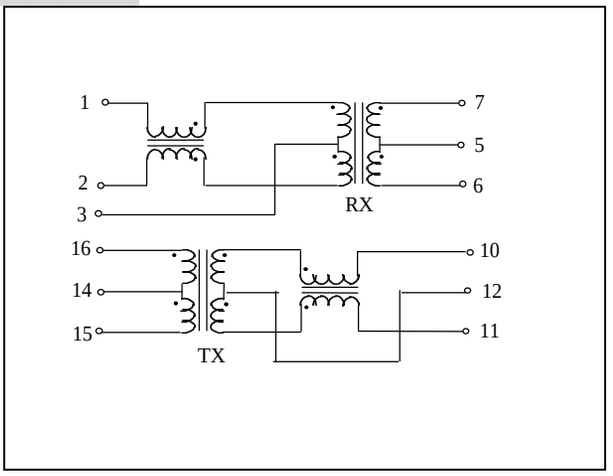
Specifications

Parameter	Condition	Min.	Typ.	Max.	Unit
Turn Ratio (TX)	Pin(15-16):(10-11)		1 : 1		
(RX)	Pin(1-2) : (7-6)		1 : 1		
Lp note1	With 8mA dc	350			µH
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
	@1-100MHz	38			dB
CMRR	@1-60MHz	45/40			dB
	@60-100MHz	40/35			dB
Voltage Isolation		1500			Vrms

Note1 : over operating temperature 0-70^{0}C

Note2 : Greater than (16-20 log(f/30 MHz))dB

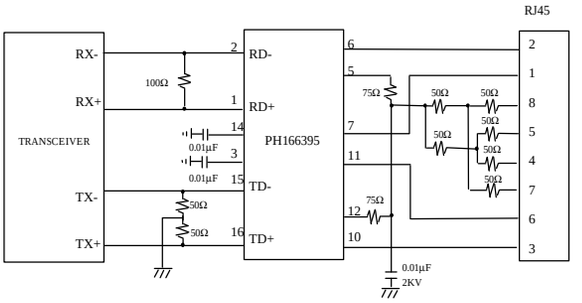
Schematic



Description

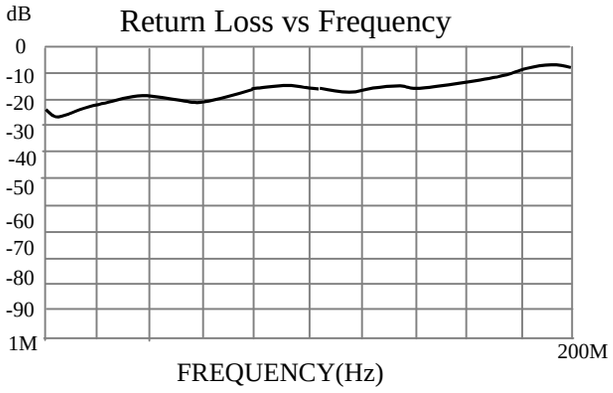
The PH166395 is a magnetic module that is specifically designed for the implementation of analog interface for MLT-3 and NRZ transceivers in fast ethernet application.
The transformer used in this module provide high voltage isolation, wide bandwidth and fast rise time .
The PH166395 ,with high impedance common mode choke , significantly suppress noise signal which may contribute to radiated and conducted emission.

Typical Application

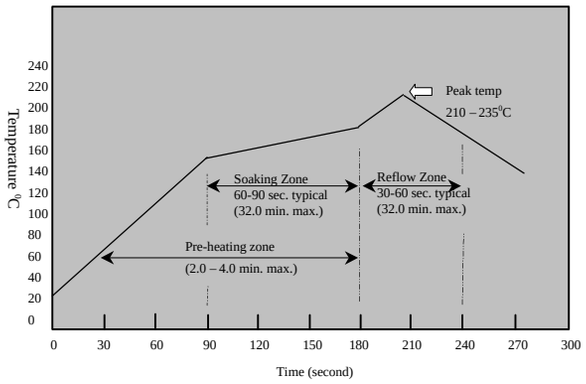


MAR 1999 R1

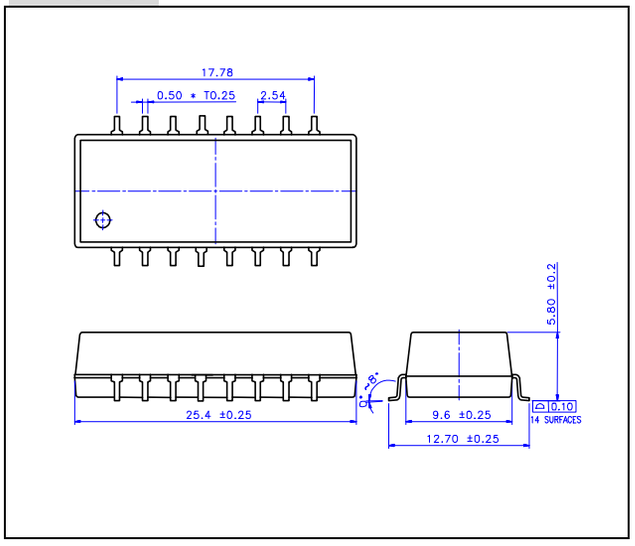
Typical Performance



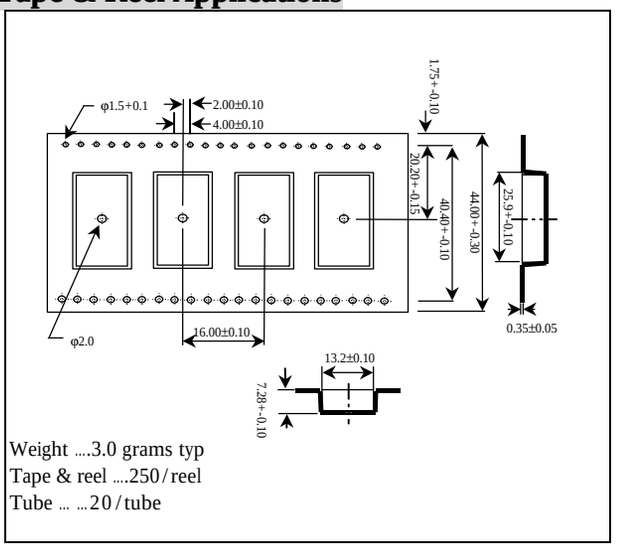
Reflow Soldering Profile



Dimension



Tape & Reel Applications



Weight ....3.0 grams typ
Tape & reel 250/reel
Tube 20/tube

For more Information

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