

Feature

- ◆ Designed to meet IEEE802.3u requirement.
- ◆ Primary inductance 350 μ H min. with 8mA DC Bias
- ◆ Designed for use with LXT970.
- ◆ Designed to meet IR 235 $^{\circ}$ C peak requirement.

Specifications

Parameter	Condition	Min.	Typ.	Max	Unit
Inductance	Pin(14-13) & Pin(9-8)	350	*Note 1		μ H
Turn Ratio	Pin(1-2):(14-13)		1 : 1		
	Pin(6-7) : (9-8)		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 $^{\circ}$ C

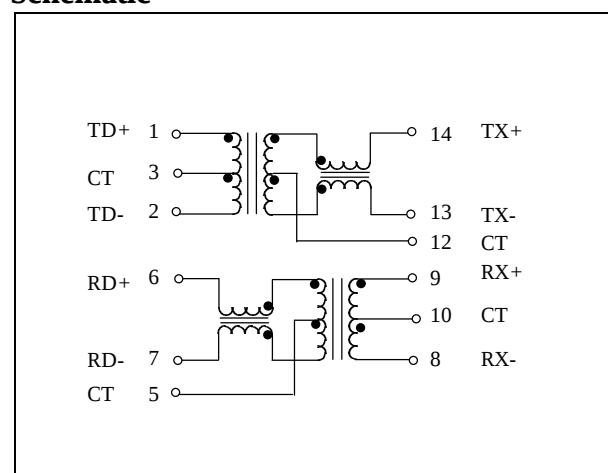
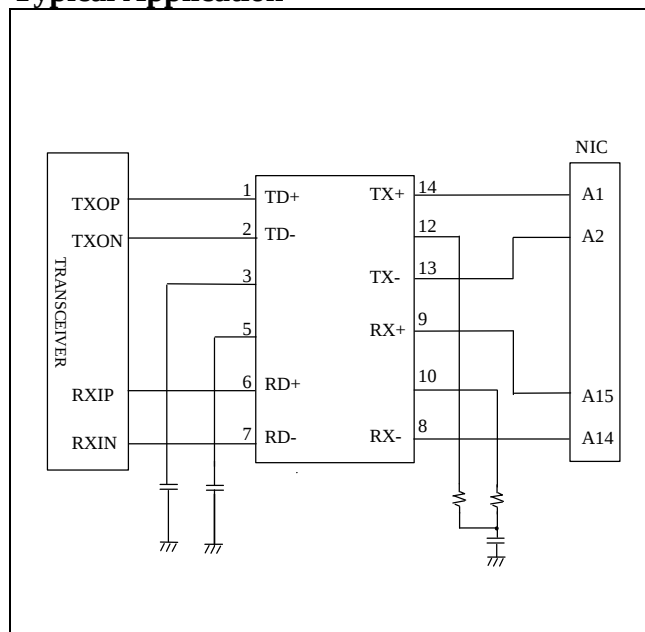
Note 2: Greater than 16-20 log(f/30 MHz)dB

Description

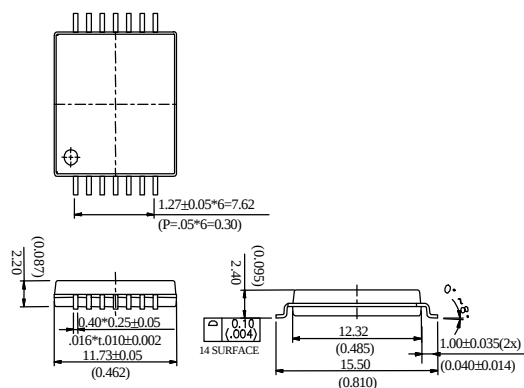
The PM143424 is a magnetic module that is specifically designed for the implementation of analog interface in Fast Ethernet application. With a minimum inductance of 350 μ H under all network operating conditions, the PM143424 minimize the baseline wander effect which can cause receiver error, particularly in less robust design, at long line length.

The PM143424 integrated high impedance common mode choke and will significantly suppress common mode and differential mode noise which may contribute to radiated and conducted emission.

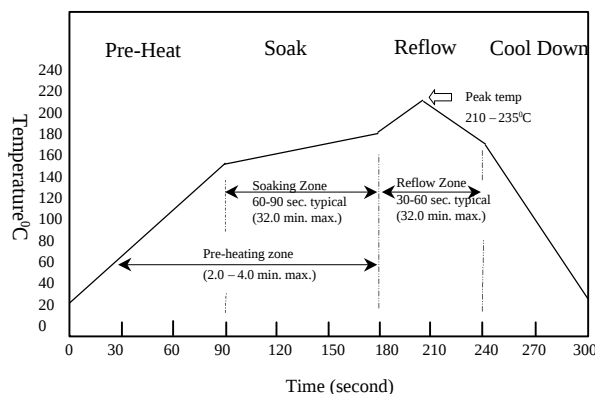
The PM143424 provide high voltage isolation to protect against static charge on the twisted pair line.

Schematic**Typical Application**

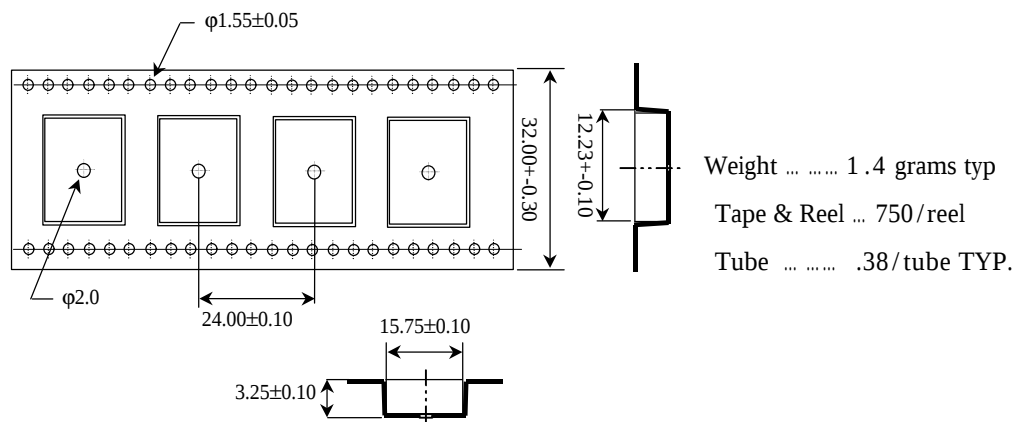
Dimension



Reflow Soldering Profile



Tape & Reel Applications



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