

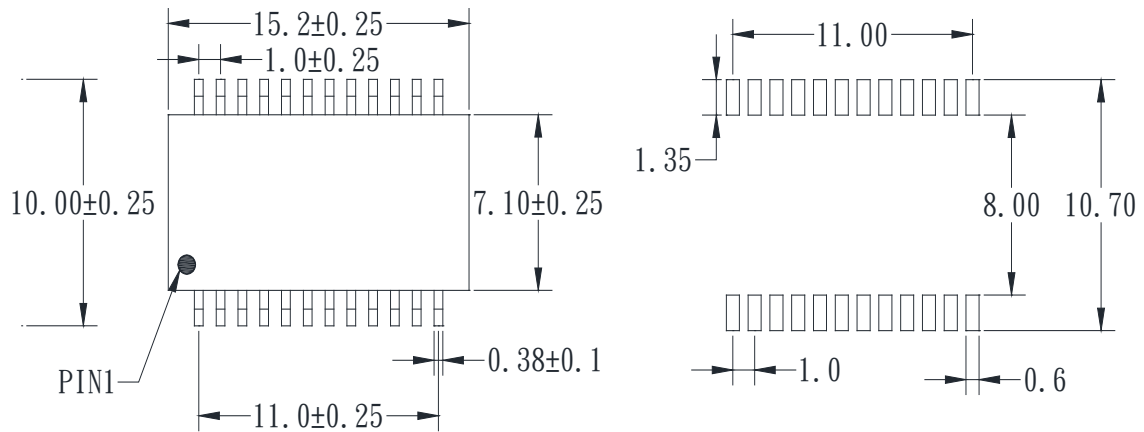
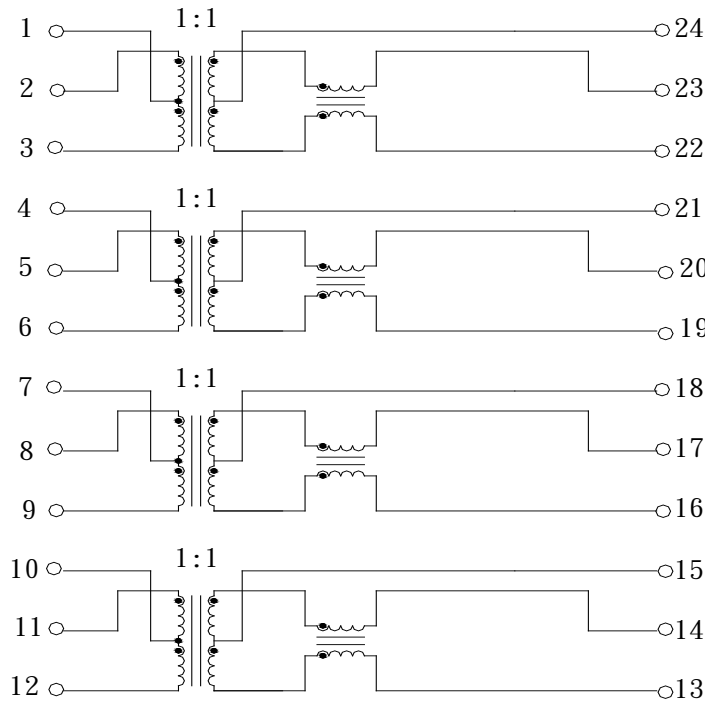
1. FEATURES:

- 1.1 Compatible with various 10/100/1000 Base-TX transceiver requiring 1:1 transmit and receive turns ratio
- 1.2 Compliant with IEEE 802.3 standard including baseline wander compensation specification of 350uH OCL when Biased at 8mA from@25°C
- 1.3 Low profile Surface Mount Packaging designed for Hi-Temp Reflow Process (255°C peak)
- 1.4 Single channel interface for 10/100/1000Mbps Ethernet applications with CMC's tuned to Enhance EMC system performance
- 1.5 Operating Temperature range: -40°C to 85°C

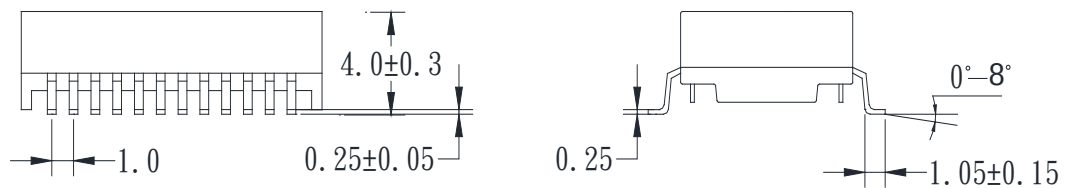
2.ELECTRICAL SPECIFICATIONS @25°C

- 2.1 OCL : 350 uH Min. @ 100 KHz, 100mV with 8mA DC Bias
- 2.2 Leakage Inductance: 0.5 uH Max. @ 100KHz, 0.1V
- 2.3 Cw/w: 30 pF Max. @ 100KHz, 0.1V
- 2.4 DCR: 1.30Ω Max.
- 2.5 Turns Ratio(±5%): 1CT:1CT(TX), 1CT:1CT(RX)
- 2.6 Insertion Loss: -1.1 dB Max. @ 1-100MHz
- 2.7 Return Loss: -18 dB Min. @ 1-30MHz
-12 dB Min. @ 60-80MHz
- 2.8Cross Talk: -42 dB Min.@ 1-30 MHz
-40 dB Min.@ 60 MHz
-38 dB Min.@ 80-100MHz
- 2.9 Common Mode Rejection : -42 dB Min.@ 1-30 MHz
-40 dB Min.@ 60 MHz
-35 dB Min.@ 80-100 MHz
- 2.10 Isolation HI-POT: 1500Vrms 1mA 1Second

SCHEMATICS:



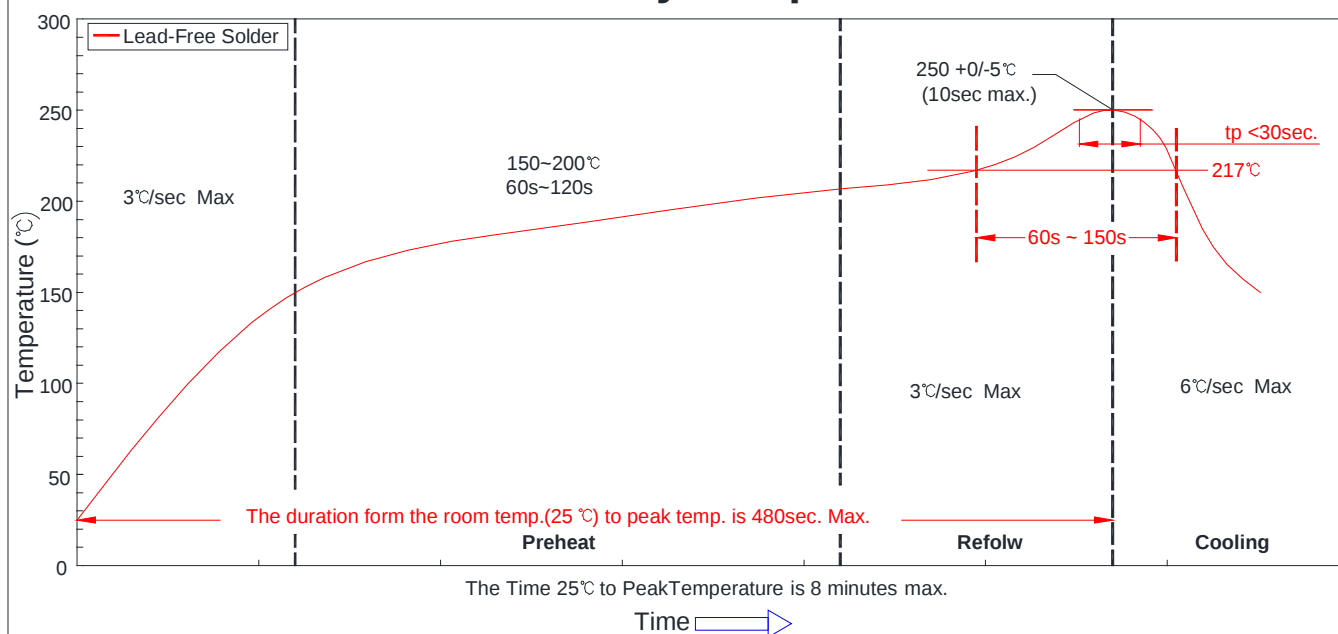
SUGGESTED PAD LAYOUT



Advice Soldering Profile

Profile Feature	
Average Ramp-Up Rate (Ts max. to Tp)	3° C/second max.
Preheat -Temperature Min (Ts min.) -Temperature Max (Ts max.) -Time (ts min. to ts max.)	150 °C 200 °C 60-120 seconds
Time maintained above: -Temperature (TL) -Time (tL)	217 °C 60-150 seconds
Peak/Classification Temperature (Tp)	250°C
Time within 5 °C of actual Peak Temperature (tp)	10seconds max.
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Test Solderability Temperature Profile



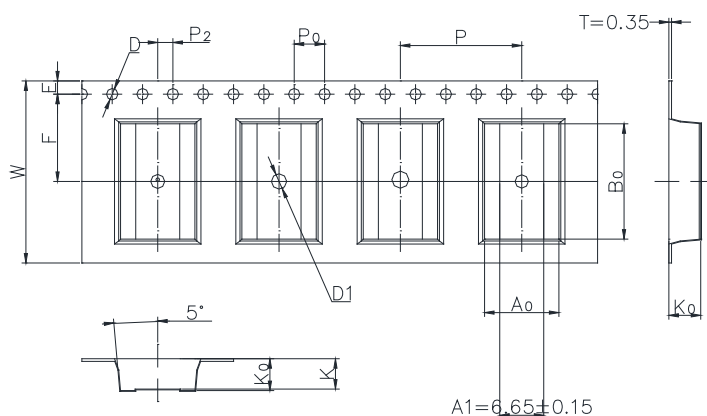
Packing Specification

<1> Part Number		HR682480E		<2>Customer			
<3> Product Size				<4> Version		1.0	
<5> Package Item:	1. Each Reel Qty 800 X 1 (Total Reel in Carton) = 800 PCS						
	2.Total unit transformer in carton 800 X 10 (Carton Qty) = 8000 PCS						
<6>Product weight							
unit	0.7 g	N.W.	5.6 kg	G.W.	6.6 Kg		

<7> Remark:

- PIN1 faces the apertures if apertures are only on one side. PIN1 faces the round aperture if the apertures are on both sides.
- Leave 160mm-taping before starting taping; leave 390mm-taping after taping.
- Wrap the protected-tape around the reel after taping.
- Pack the reel with bag and seal it before putting into the carton.
- Hard cardboard will be placed in each corner of the carton for protection.
- Cartons will be sealed with tape.

<9> Reel Dimension



ITEM	W	A ₀	B ₀	K ₀	K ₁	P	F	E	D	D ₁	P ₀	P ₂
DIM	24.0 ^{+0.30} _{-0.10}	11.1 ^{+0.10} _{-0.10}	15.7 ^{+0.10} _{-0.10}	14.90 ^{+0.10} _{-0.10}	14.30 ^{+0.10} _{-0.10}	16.0 ^{+0.10} _{-0.10}	11.5 ^{+0.10} _{-0.10}	1.75 ^{+0.10} _{-0.10}	1.50 ^{+0.10} _{-0.00}	1.50 ^{+0.25} _{-0.00}	14.00 ^{+0.10} _{-0.10}	2.00 ^{+0.10} _{-0.10}
ALTERNATB												

