



NO:RD-Pulse:H5019  
DATA:2011/08/03 R(REV:A5)

# 1000 BASE-T MAGNETICS MODULES

## MODEL NO.: IH-009

### FEATURE:

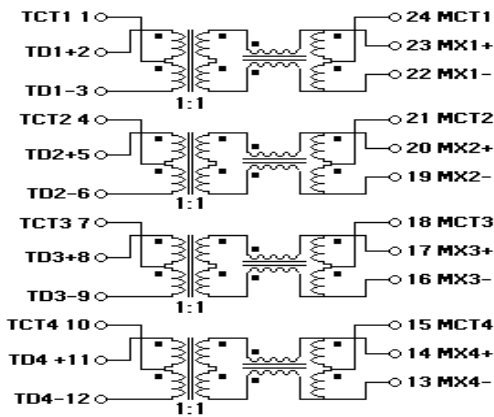
- RoHS Compliant
- 10/100/1000 Mbps Ethernet applications
- RoHS peak solder rating 260°C/ 3~5 Sec
- Design to meet IR requirement
- Do not use material and use that the prohibition that SS-00259 stipulates
- Specifications @ 25°C
- Operating temp. : -40°C~+85°C
- OCL:350 MIN @8mA (100kHz, 100mV)
- MSL=2



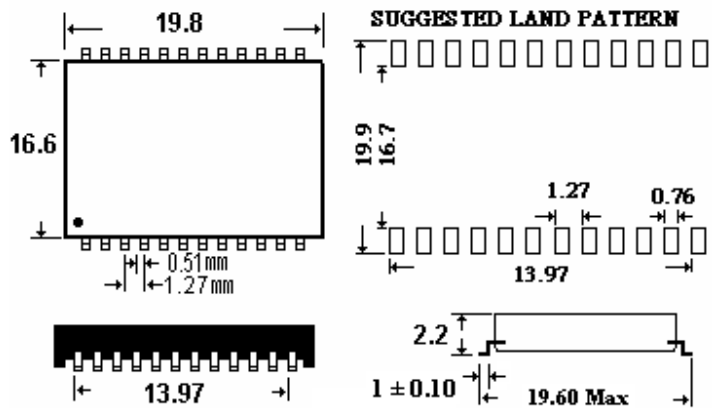
Designed for long haul Gigabit Ethernet 1000Base-T, full duplex applications  
Supports 4 pairs of category 5UTP cable  
Cable interface for isolation and low common mode emissions  
Compliant with IEEE 802.3ab standard  
For 1000Base-T

Part Number	Insertion Loss (dB MAX)	Return Loss (dB Min) 100Ω±15%					Differential to Common Mode Rejection (dB MIN)				Cross talk(TX-RX) (dB MIN)			
		1-40	50	60	60-80	100 MHz	2	30	60	100 MHz	1	30	60	100 MHz
IH-009	1~100	-18	-14	-12.5	-12	-10	-50	-43	-37	-33	-50	-45	-40	-35
	-1.0													

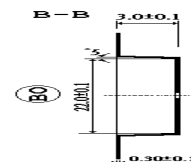
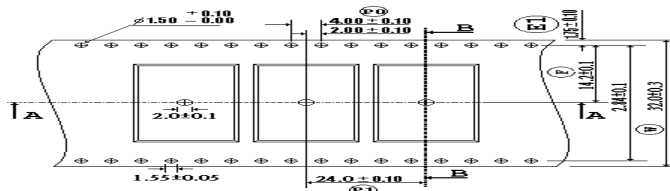
### SCHEMATICS:



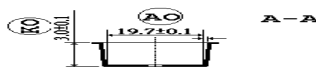
### DIMENSION: mm TOLERANCE:±0.25



### Packing :



W: 32.0±0.30  
F1: 24.0±0.10  
AO: 19.70±0.10  
BO: 22.00±0.10  
KO: 3.00±0.10  
Tape & reel-----800/reel



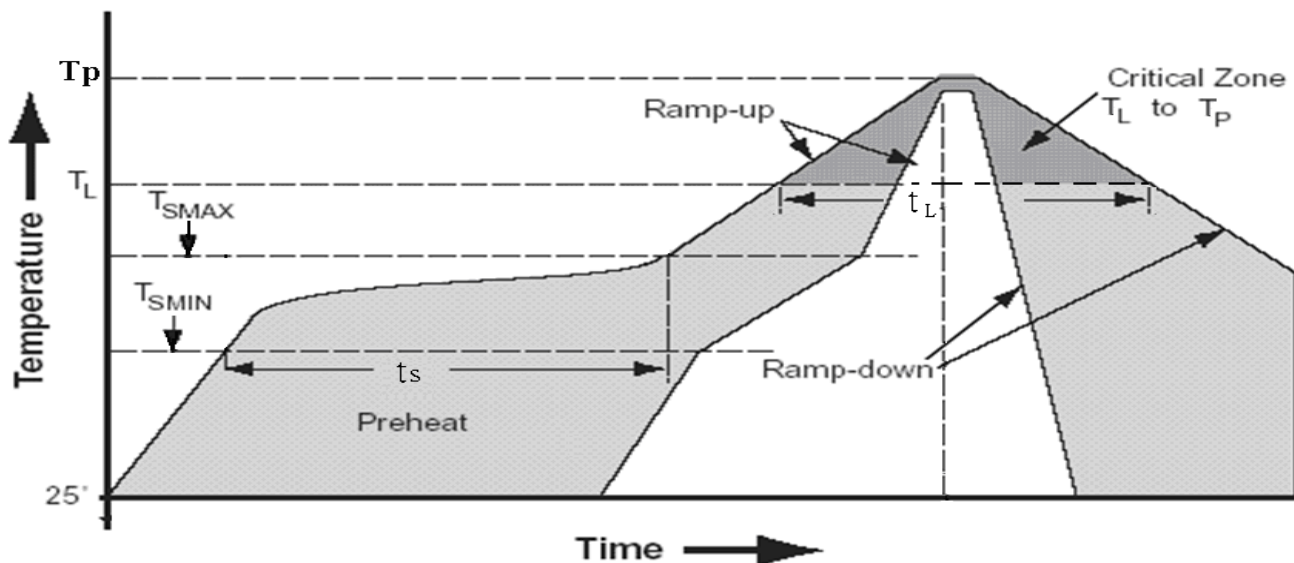
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Solder Reflow profile for Lead-Free packages.  
Package Peak Reflow Temperatures

### Classification Reflow Profiles

Profile Feature	Lead-Free Assembly	
Average ramp-up rate( $T_L$ to $T_P$ )	3°C / Second Max.	
Preheat Temperature Min.( $T_{s\ min.}$ ) Temperature Max.( $T_{s\ max.}$ ) Time (min to max) ( $t_s$ )	150 °C 200 °C 60-180 sec	
$T_{s\ max.}$ to $T_L$ Ramp-up Rate	3°C / Second Max.	
Time maintained above Temperature ( $T_L$ ) Time ( $t_L$ )	217 °C 60-150 sec	
Peak Tempure ( $T_p$ ) Time within 5 °C of actual peak Temp.	260 +0 / -5 °C 3 to 5 Sec	250 +0 / -5 °C 20 to 40 Sec
Ramp-down	6°C / Second Max.	
Time 25 °C to Peak Temperature	8 minutees Max.	

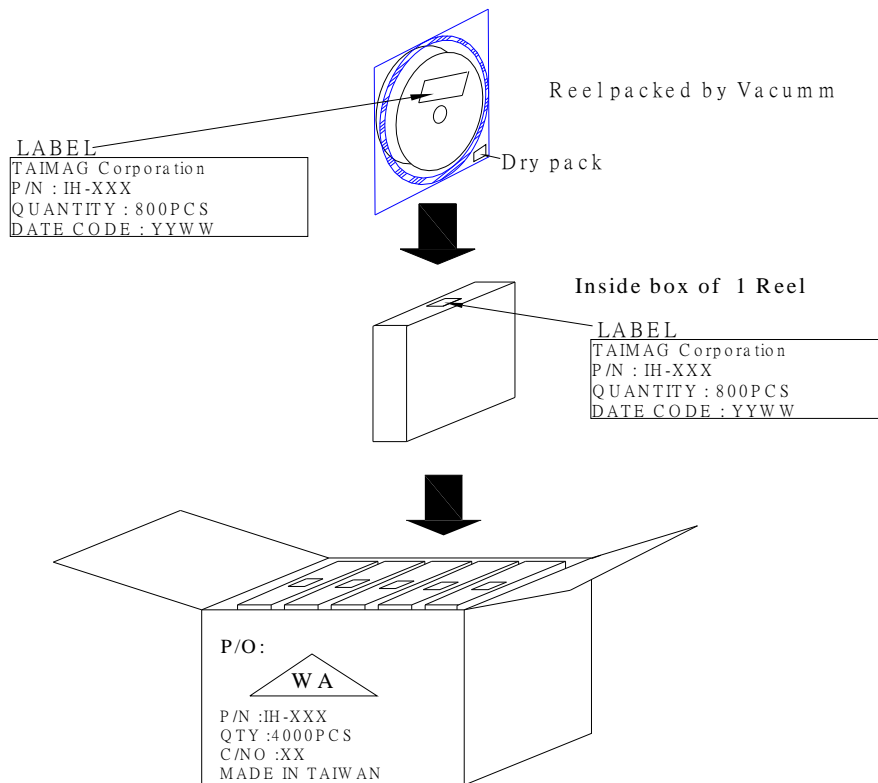
### Profile



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### PACKING

1. Tape & Reel : 800pcs / Reel , 4000pcs / Carton
2. Dry Pack : 1pcs  
Product Description:(5g Silica Gel Desiccant)  
PH: 4-8  
Package Materials: Paper(Length 6.5±1cm , Width 5±1cm)
3. Reel Packed By Vacuum
4. Seal Per Jedec





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REV.	Revision Description	DATE	APPROVED
A1	First Release	2005/09/13	
A2	修改尺寸圖	2006/12/04	
A3	Update Solder Reflow profile	2008/12/01	
A4	Update Dimension	2009/02/03	
A5	Add SS-00259 stipulates	2011/08/03	