



# Networking Communication Components

## RT Series

### **LAN Transformer**

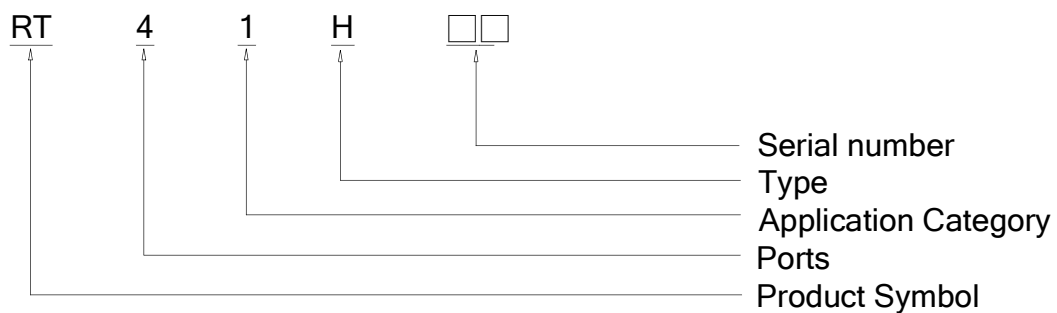
Part number: RT41H03

Part name : 10/100 Transformer Four Ports

### **Feature**

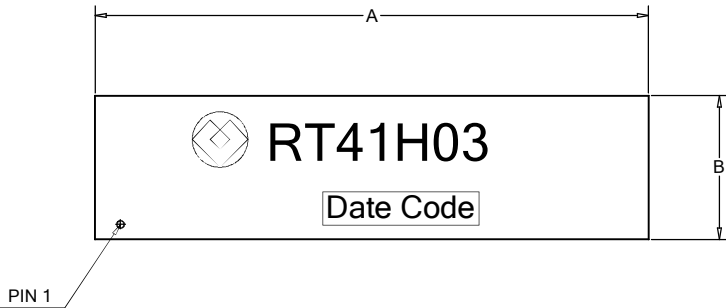
- Meets IEEE802.3 specification.
- Compliant and peak reflow temperature rating 255°C .
- Packaging specification is tube.  
(RT41H□□: Tube)

### **Part number code**

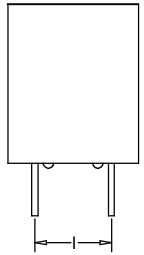
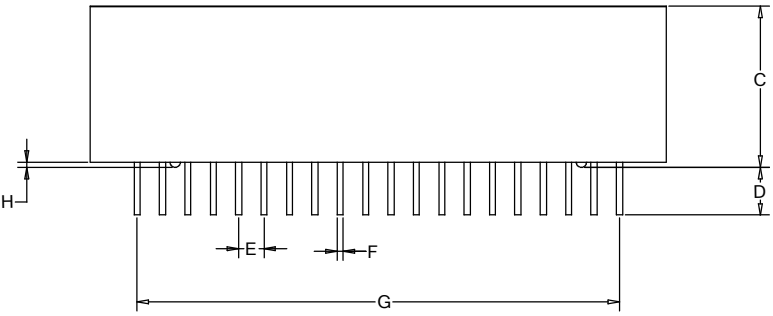
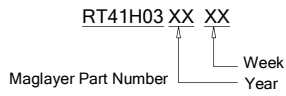


REV.	Description	Date	Drawn	Designed	Approved
A	Specification issued	01.17.2013	Yuxuan.Xiang	Yuxuan.Xiang	James.Cheng

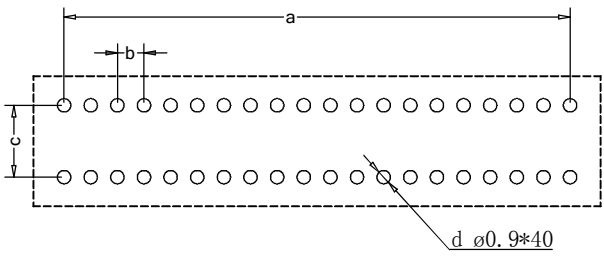
# Mechanical Dimension and Marking



UNIT	mm	inch
A	37.80 +0.254/-0.254	1.488 +0.010/-0.010
B	7.80 +0.254/-0.254	0.307 +0.010/-0.010
C	10.75 max.	0.423 max.
D	3.00 +0.254/-0.254	0.118 +0.010/-0.010
E	1.78 +0.127/-0.127	0.070 +0.005/-0.005
F	0.50 +0.127/-0.127	0.020 +0.005/-0.005
G	33.82 +0.254/-0.254	1.331 +0.010/-0.010
H	0.50 +0.127/-0.127	0.020 +0.005/-0.005
I	4.80 +0.254/-0.254	0.189 +0.010/-0.010



# Suggested Land Pattern



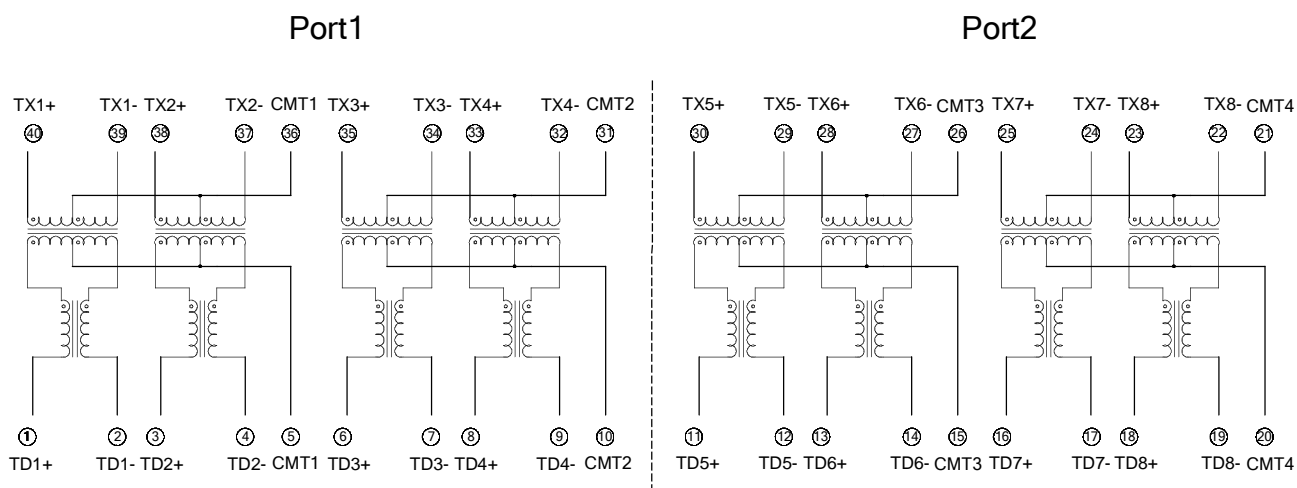
UNIT	mm	inch
a	33.82	1.331
b	1.78	0.070
c	4.80	0.189
d	ø0.9	0.035

Drawn	Yuxuan.Xiang	Designed	Yuxuan.Xiang	Approved	James.Cheng
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# Schematics

RT41H03

CABLE SIDE



PHY SIDE

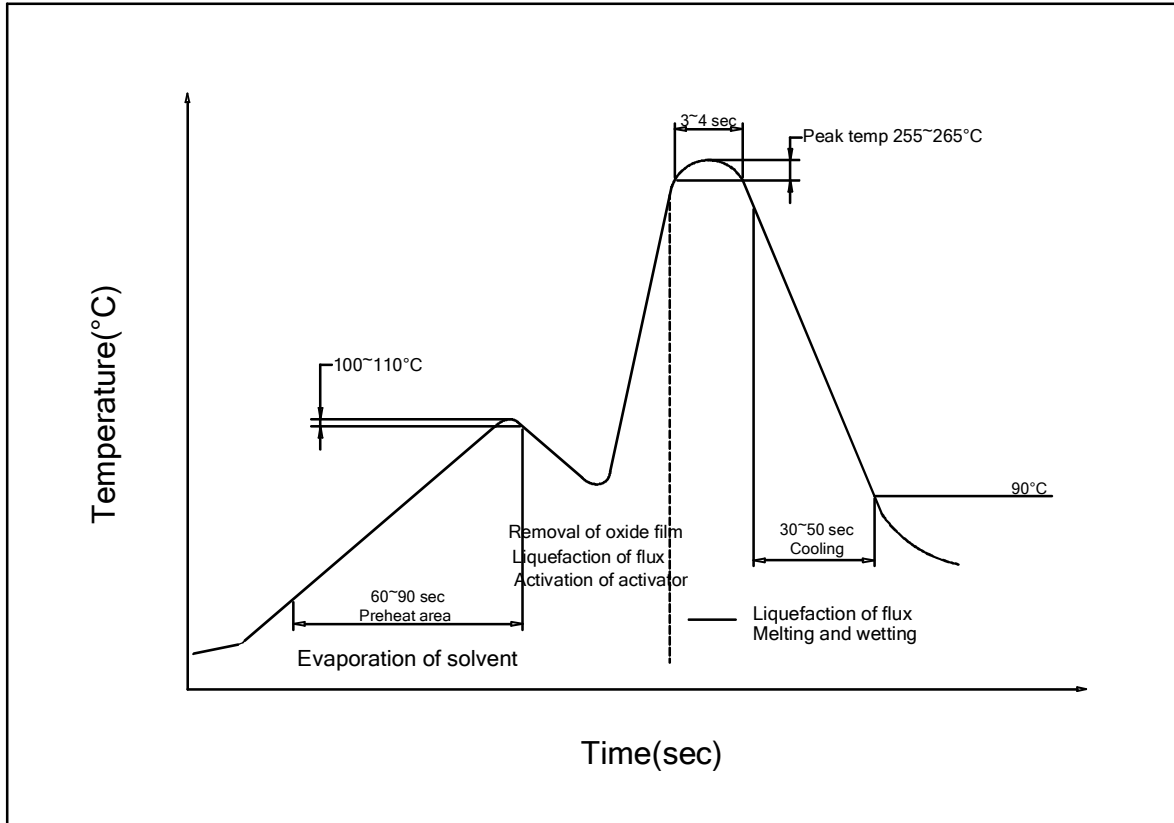
## Electrical Specification @ 25°C, Humidity 65% RH

Inductance @ Phy side(OCL)  
 100KHz, 0.1V, 8mA DC Bias  
 350uH MIN

Part Number	Turns Ratio	Insertion Loss	Return Loss					CMRR			Crosstalk			Hipot
	100KHz	dB MAX	dB MIN					dB MIN			dB MIN			Vrms, Sec
	± 3%	1MHz-100MHz	1MHz-30MHz	40MHz	50MHz	60MHz-80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	Pri To Sec
RT41H03	1:1	-1.1	-16	-14	-13	-11	-10	-33	-28	-22	-40	-33	-28	1500, 60

Operating Temperature: 0°C to +70°C.  
 Storage Temperature: -25°C to +105°C  
 JSDEC Moisture: Level 1.

## Wave Soldering



- Tip Temperature :265°C MAX.
- Tip Temperature Time: 4sec MAX.