



Networking Communication Components

RT Series

LAN Transformer

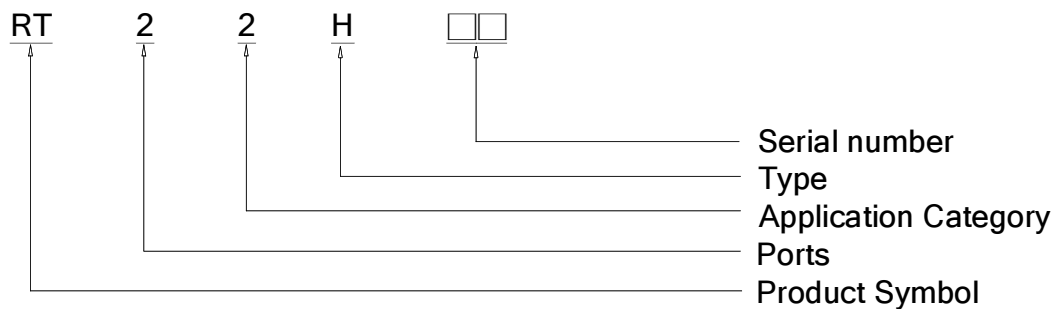
Part number: RT22H03

Part name : Giga Transformer Two Port

Feature

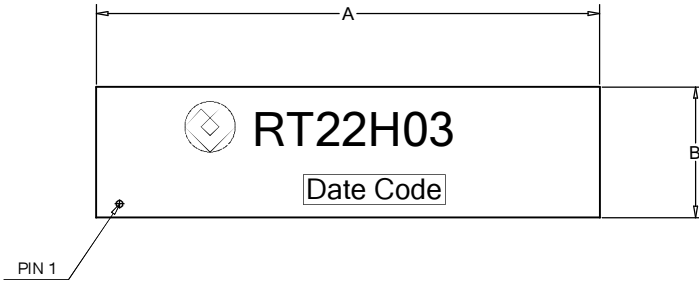
- Meets IEEE802.3 specification.
- Compliant and peak reflow temperature rating 255°C .
- Packaging specification is tube.
(RT22H□□ : Tube)

Part number code

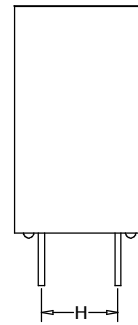
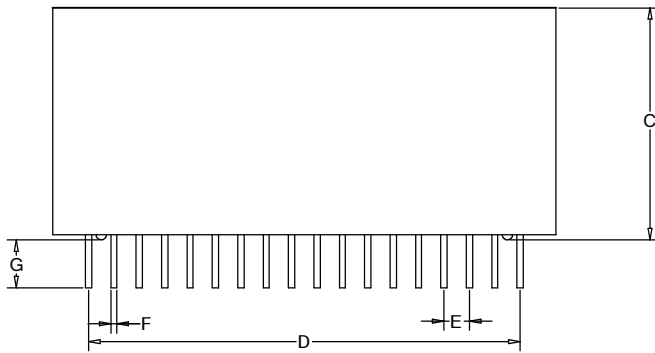
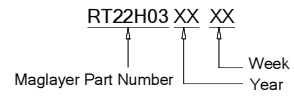


REV.	Description	Date	Drawn	Designed	Approved
A	Specification issued	05.06.2011	Allen.Yu	Allen.Yu	James.Cheng

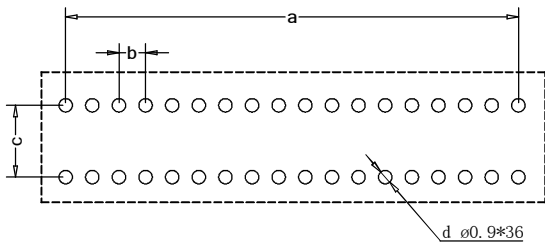
Mechanical Dimension and Marking



UNIT	mm	inch
A	32.50 +0.254/-0.254	1.280 +0.010/-0.010
B	8.50 +0.254/-0.254	0.335 +0.010/-0.010
C	11.60 +0.254/-0.254	0.457 +0.010/-0.010
D	30.26 +0.254/-0.254	1.191 +0.010/-0.010
E	1.78 +0.254/-0.254	0.070 +0.010/-0.010
F	0.40 +0.127/-0.127	0.016 +0.005/-0.005
G	3.20 +0.254/-0.254	0.126 +0.010/-0.010
H	4.80 +0.254/-0.254	0.189 +0.010/-0.010



Suggested PWB Layout



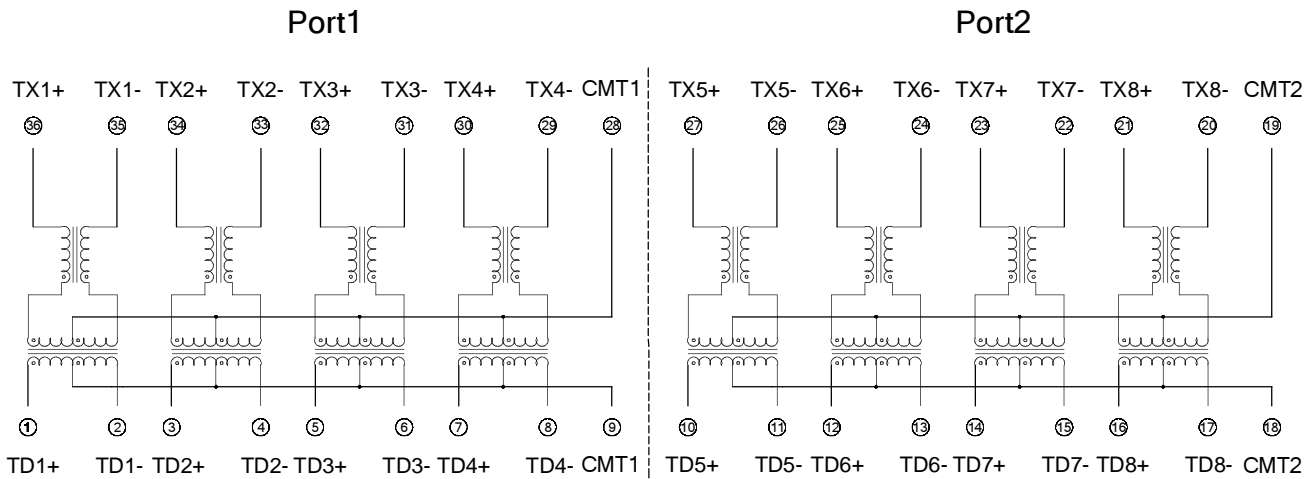
UNIT	mm	inch
a	30.26	1.191
b	1.78	0.070
c	4.80	0.189
d	∅0.9	0.035

Drawn	Allen.Yu	Designed	Allen.Yu	Approved	James.Cheng
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Schematics

RT22H03

CABLE SIDE



PHY SIDE

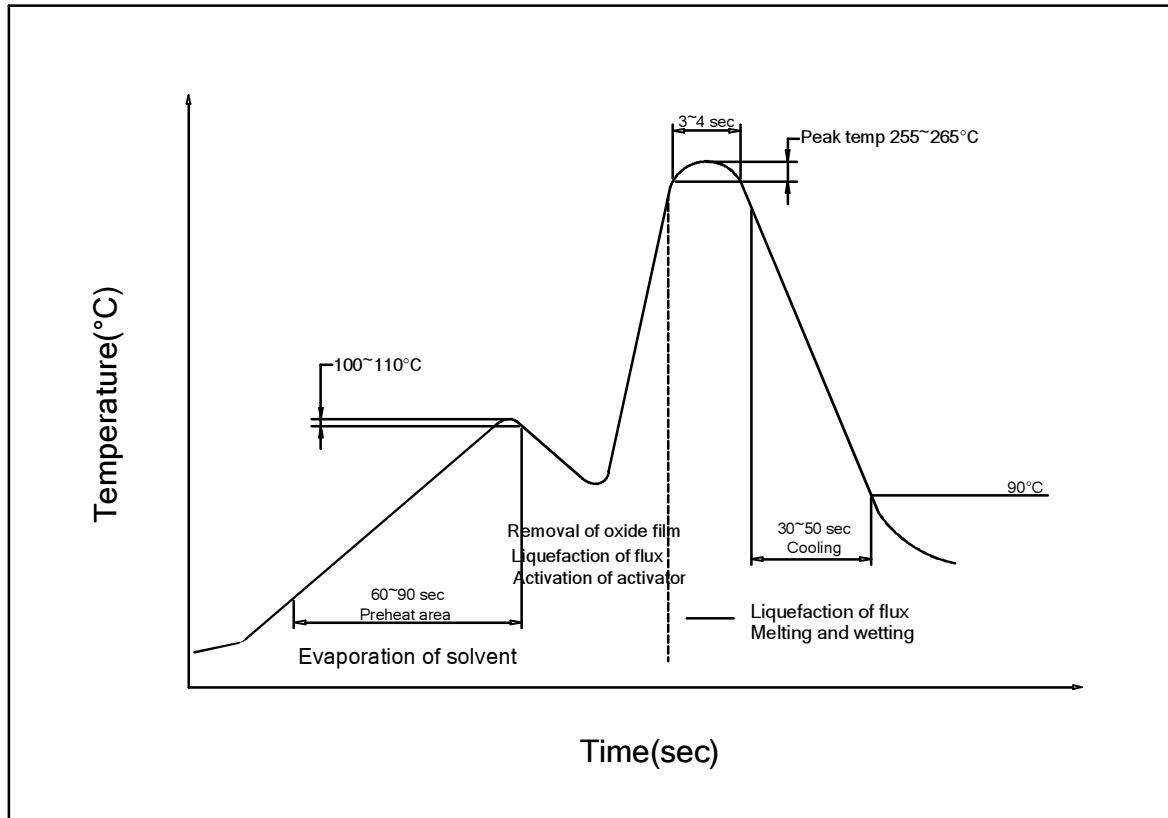
Electrical Specification @ 25°C, Humidity 65% RH

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

Part Number	Turns Ratio	Insertion Loss	Return Loss				DMCR			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	
RT22H03	1:1	-1.0	-18	-14.4	-13.1	-12	-10	-40	-35	-30	-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.