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ArchiCore Electronics CO., LTD



## Product Specification

<b>Product name</b>	<b>GL4P1012</b>
<b>Product Type</b>	<b>Quad Ports PTH Transformer module</b>
<b>System Application</b>	<b>100/1000BASE-T</b>
<b>Author</b>	<b>Sundi Lin</b>
<b>Approved By</b>	<b>Alvin Liou</b>

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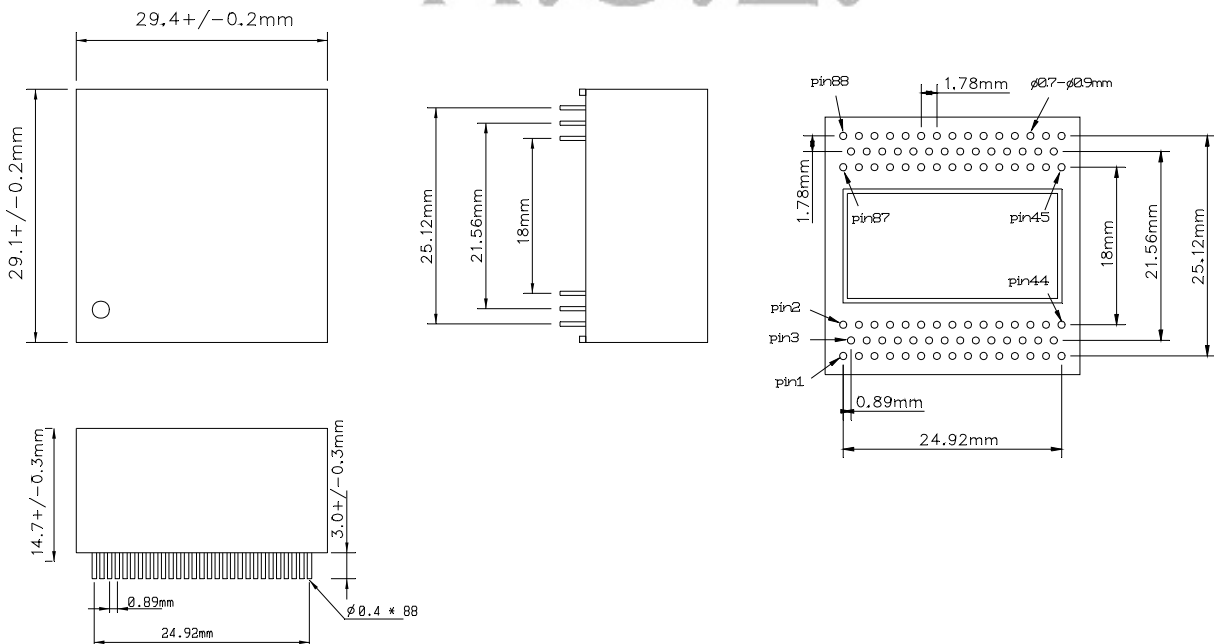
**Specifications** :@ 25<sup>0</sup>C, operating temperature 0<sup>0</sup>C -70<sup>0</sup>C

- |                        |               |               |
|------------------------|---------------|---------------|
| 1. Inductance( note1)  | 350uH Min.    | @100KHz,100mV |
| 2. Turn Ratio          | 1CT :1CT ± 5% |               |
| 3. Insertion Loss      | -1.0 dB Max.  | @1-100MHz     |
| 4. Return loss         | -16 dB Min.   | @1-30MHz      |
|                        | -12 dB Min.   | @60MHz-80MHz  |
|                        | -10 dB Min.   | @100MHz       |
| 5. Cross talk          | -43.5 dB Min. | @30MHz        |
|                        | -37.5 dB Min. | @60MHz        |
|                        | -33 dB Min.   | @100MHz       |
| 6. CMRR                | -40 dB Min.   | @30MHz        |
|                        | -35 dB Min.   | @60MHz        |
|                        | -30 dB Min.   | @100MHz       |
| 7. Voltage isolation   | 1500 Vrms     |               |
| 8. DCR                 | 1.2ohm Max.   |               |
| 9. Interwinding Cap    | 25pF Max.     |               |
| 10. Leakage Inductance | 1.0uH max.    |               |

Note 1 : measured at 8mAdc over operating temperature 0<sup>0</sup>C -70<sup>0</sup>C

Note 2: Above specification only for one port.

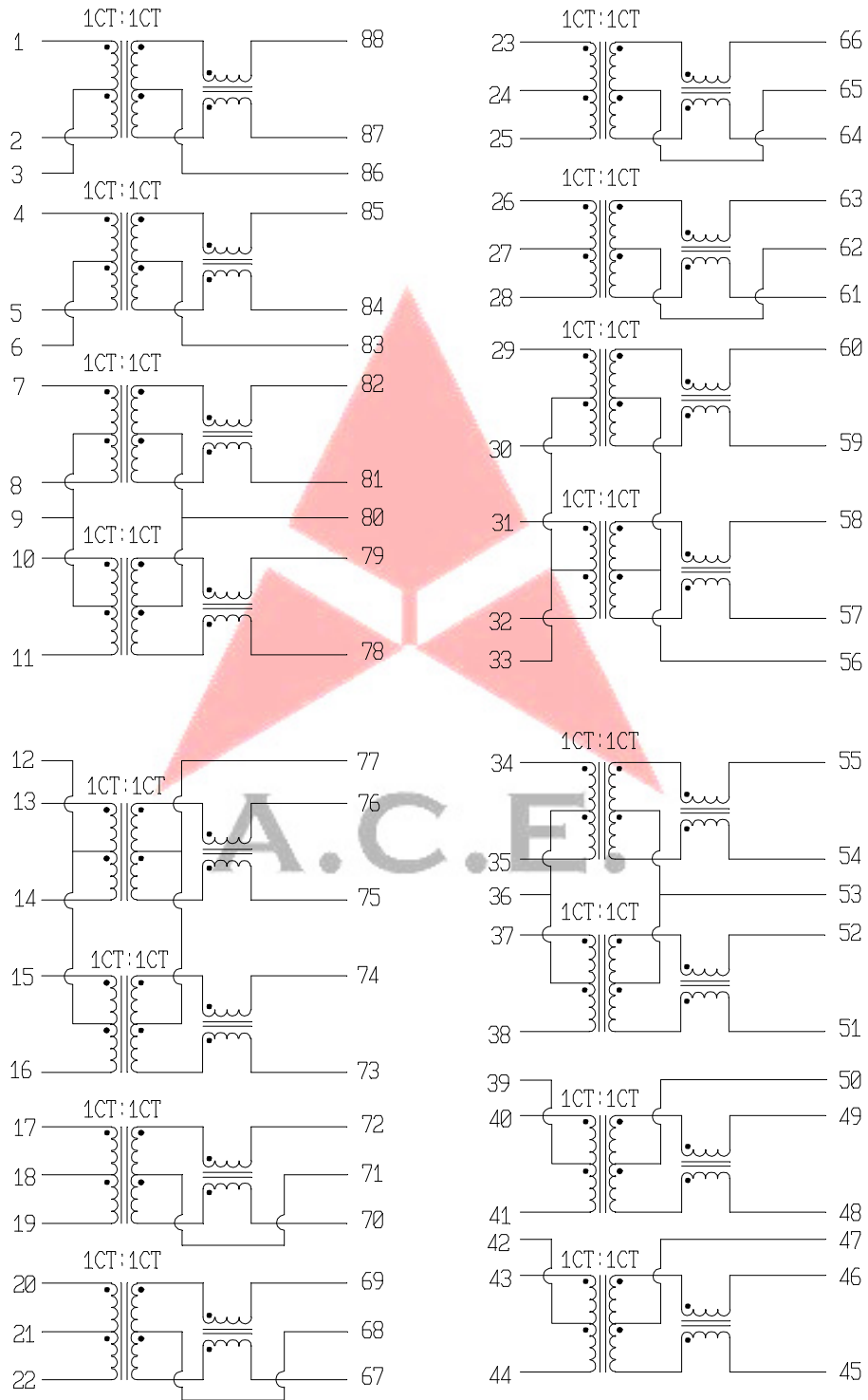
**Mechanical:** ± 0.25mm





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Schematic:





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**Revision History:**

Rev.	Author	Approved by	Description of change	Issued date
0	Sundi	Alvin	New release	2010/8/17
1	Sudni	Alvin	Modified Specifications	2011/4/19

