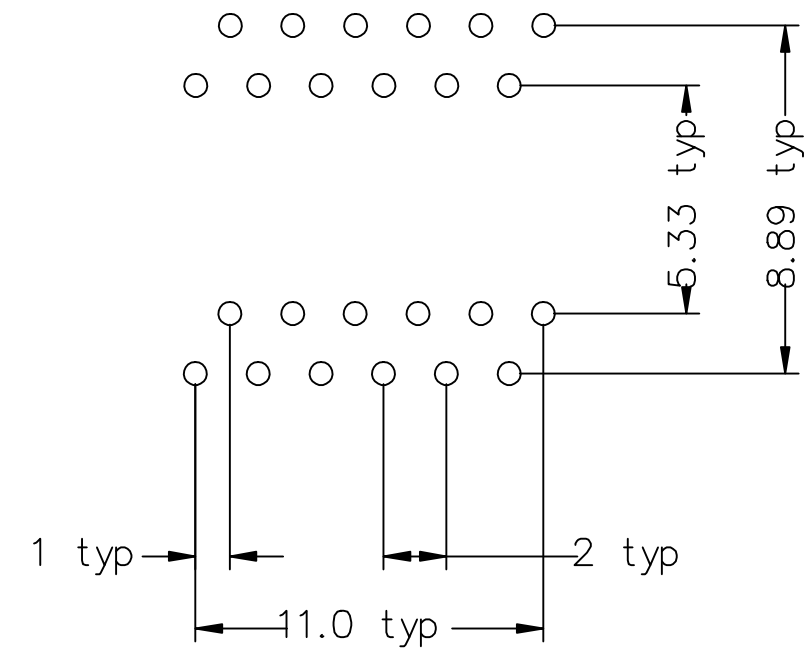
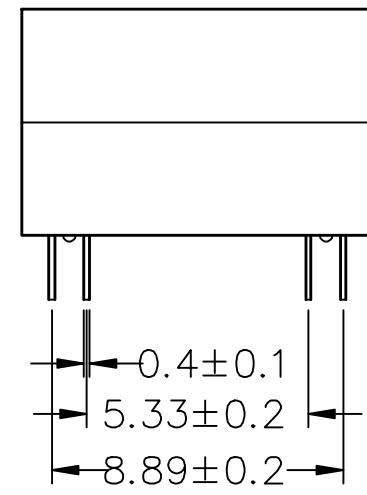
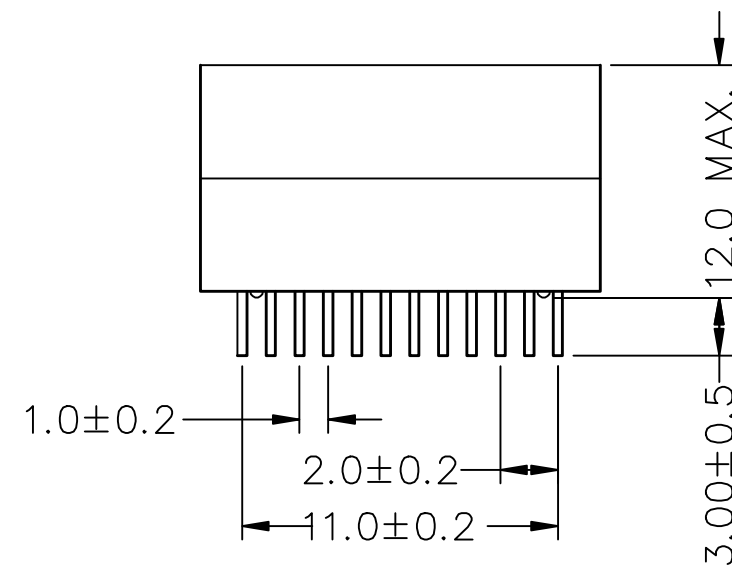
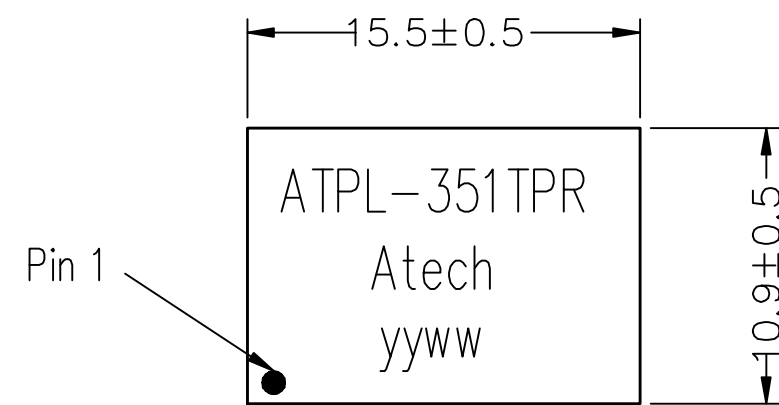


Mechanical Dimensions :



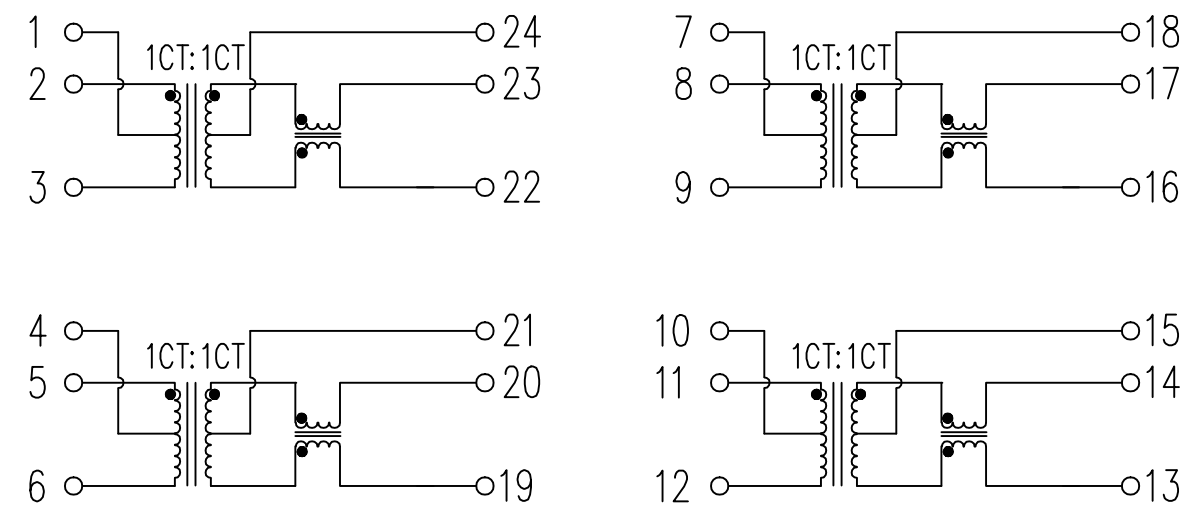
Suggested PAD Layout

|           |             |            |         |       |       |                                                                                       |                                                  |                 |
|-----------|-------------|------------|---------|-------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
|           |             |            |         |       |       |  | TITLE<br>10/100/1000 BASE-TX<br>PoE+ TRANSFORMER |                 |
|           |             |            |         |       |       |                                                                                       | DWG. NO.<br>ATPL-351TPR                          |                 |
|           | RELEASE     | 02/02/2024 | SHIRLEY | BETTY | BETTY |                                                                                       | UNITS:<br>M/M                                    | SAFETY          |
| NO:       | DESCRIPTION | DATE       | BY      | CHK   | APPD  | DATE                                                                                  | P/N:                                             | SHEET1 OF 2     |
| REVISIONS |             |            |         |       |       | 02/02/2024                                                                            |                                                  | DRAW<br>SHIRLEY |

ELECTRICAL SPECIFICATIONS @ 25°C :

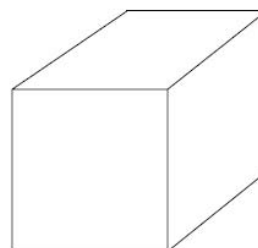
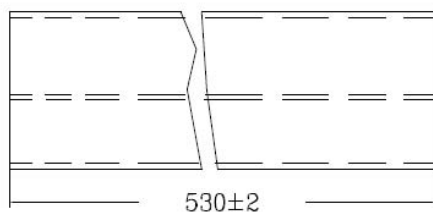
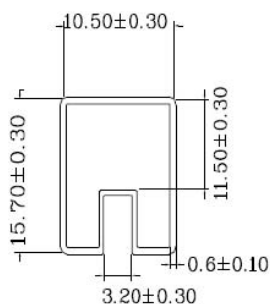
- 1. TURNS RATIO (± 5%) : 1CT : 1CT
- 2. OCL (@100KHz/0.1V WITH 8mA BIAS) : 350uH MIN.
- 3. L.L : 0.5uH MAX.
- 4. DCR : 1.4Ω MAX.
- 5. INSERTION LOSS : 1-100MHz = -1.1dB MAX.
- 6. RETURN LOSS : 1-30MHz = -18dB MIN.  
40MHz = -14.4dB MIN.  
50MHz = -13.1dB MIN.  
60-80MHz = -12dB MIN.  
100MHz = -10dB MIN.
- 7. CROSS TALK : 1-100MHz = -30dB MIN.
- 8. DIFFERENTIAL TO COMMON MODE REJECTION : 1-100MHz = -30dB MIN.
- 9. HI-POT : 1500Vrms, 1mA, 60SEC
- 10. OPERATING TEMPERATURE RANGE : -40°C~+85°C  
STORAGE TEMPERATURE : -40°C~+85°C
- 11. 720mA CURRENT CAPABILITY--IT IS SUITABLE FOR IEEE 802.3at
- 12. RoHS COMPLIANT

Circuit Schematic :

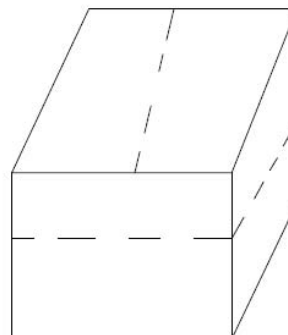
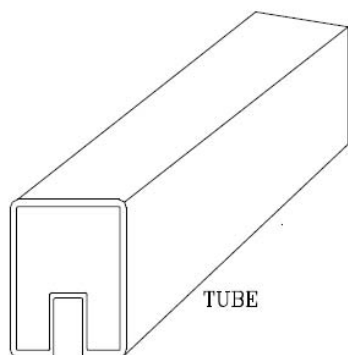


|           |             |            |         |       |       |                    |  |                                                  |  |
|-----------|-------------|------------|---------|-------|-------|--------------------|--|--------------------------------------------------|--|
|           |             |            |         |       |       | <div>AOEM</div>    |  | TITLE<br>10/100/1000 BASE-TX<br>PoE+ TRANSFORMER |  |
|           |             |            |         |       |       |                    |  | DWG. NO.<br>ATPL-351TPR                          |  |
|           |             |            |         |       |       |                    |  | SHEET2 OF 2                                      |  |
|           | RELEASE     | 02/02/2024 | SHIRLEY | BETTY | BETTY | UNITS:<br>M/M      |  | SAFETY                                           |  |
| NO:       | DESCRIPTION | DATE       | BY      | CHK   | APPD  | DATE<br>02/02/2024 |  | P/N:                                             |  |
| REVISIONS |             |            |         |       |       | 02/02/2024         |  | DRAW<br>SHIRLEY                                  |  |

## Package :



INNERCARTON: 570(L)X180(W)X100(H)



EXPORTCARTON: 580(L)X380(W)X240(H)

一管裝: 32PCS

一小箱: 1600PCS

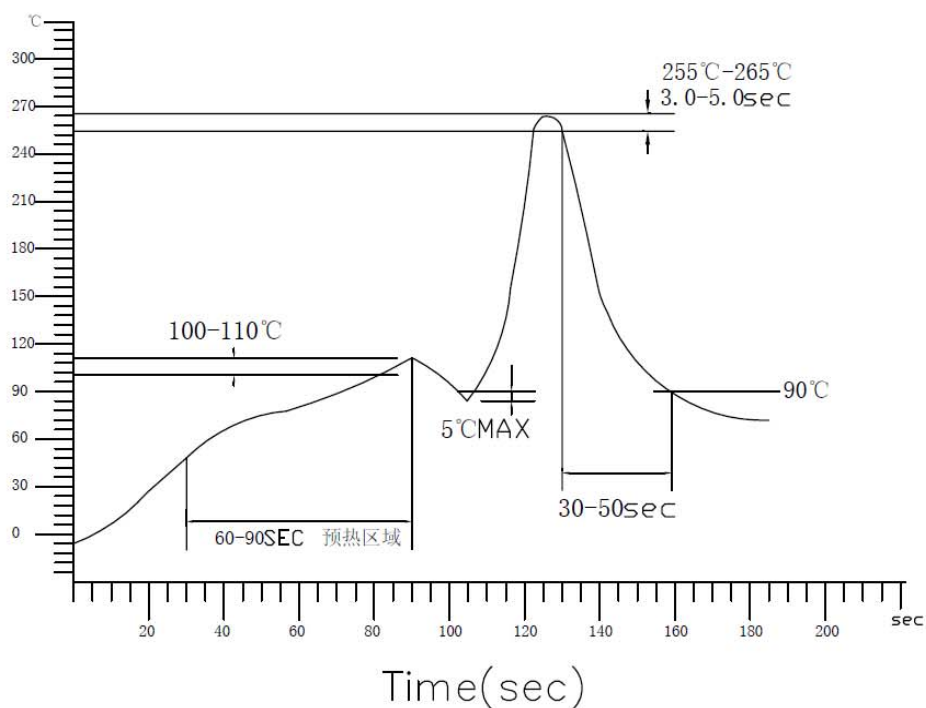
一大箱: 6400PCS

## 6. Soldering Heat Withstanding Survey (DIP)

### Pb-free Soldering Heat Withstanding Survey(DIP)

| Reflow conditions      | Preheat area | Time at 220℃ or higher | Peak Temp | Holding time at 260℃ temp |
|------------------------|--------------|------------------------|-----------|---------------------------|
| Recommended conditions | Max 120s     | Max 30s                | 260℃      | Max 6S                    |

Soldering Temp.profile



| Soldering conditions   | Soldering Temp. | Heating Time |
|------------------------|-----------------|--------------|
| Recommended conditions | 260℃±5℃         | Max 6 sec    |

| Soldering Iron Conditions | Soldering Iron Temp | Heating Time |
|---------------------------|---------------------|--------------|
| Recommended conditions    | 350±10℃             | Max 5 sec    |

| Part Electrode Plating Constitution | Sn.CU |
|-------------------------------------|-------|
|-------------------------------------|-------|

| Any other series applicable same conditions | NO |
|---------------------------------------------|----|
|---------------------------------------------|----|

| Packing Configuration | TRAY |
|-----------------------|------|
|-----------------------|------|