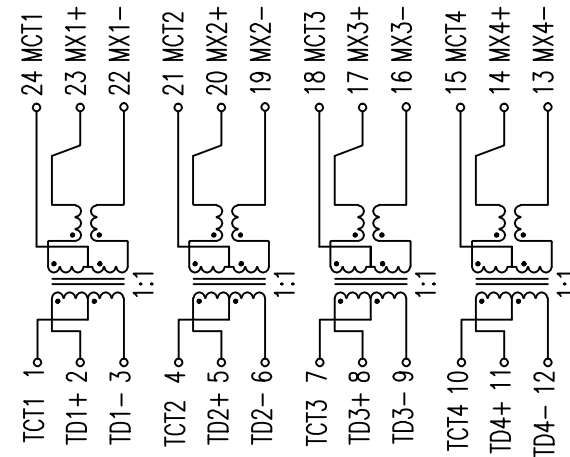


SUGGESTED PAD LAYOUT



\* RoHS COMPLIANT

### △ ELECTRICAL CHARACTERISTICS :

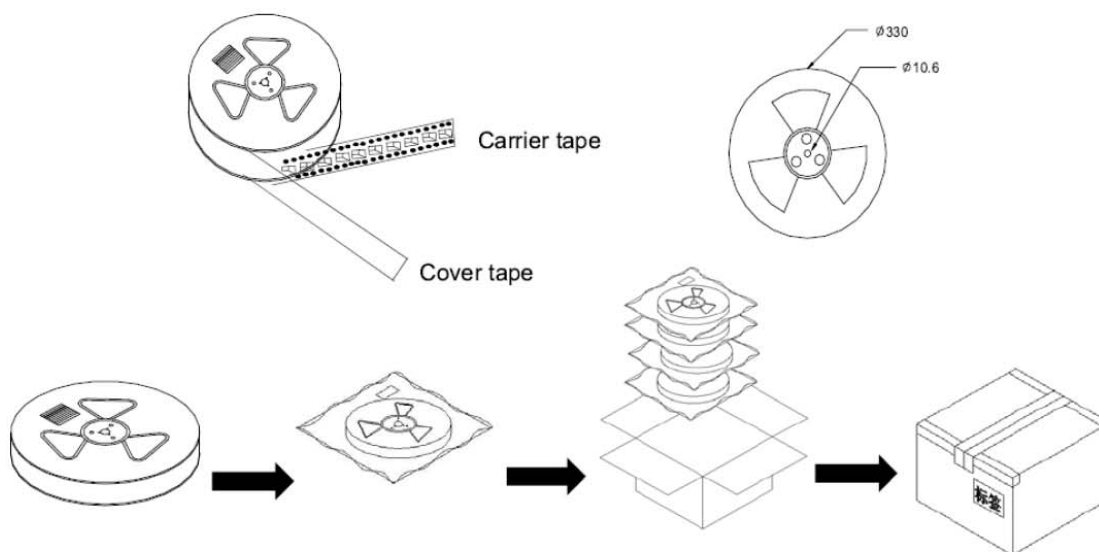
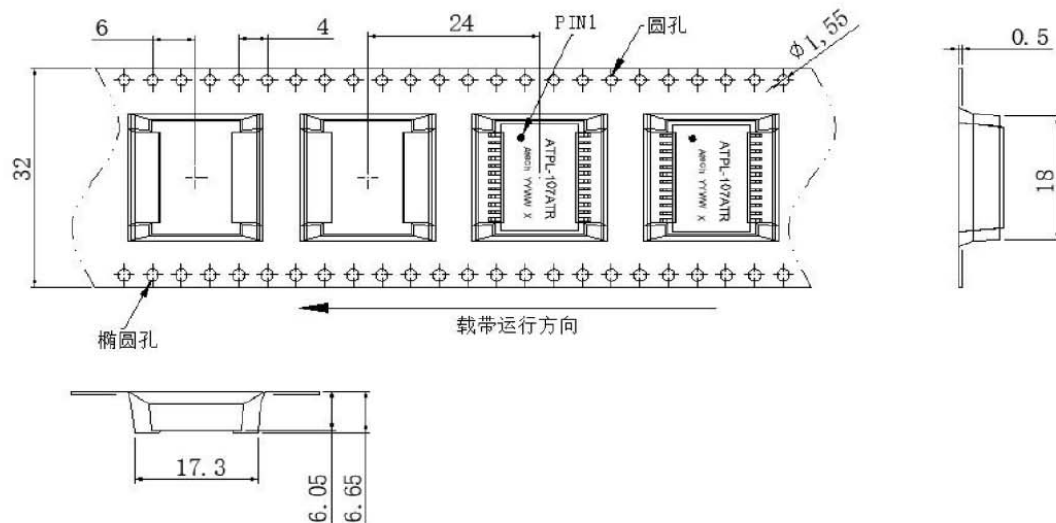
1. INSULATION HI-POT : 1500 Vrms/0.5mA ,1 Sec.
2. TURN RATIO ( $\pm 5\%$ ) : 1CT : 1
3. OCL : 350uH MIN. 8mA/DC Bias
4. CROSS TALK (dB MIN.) : 30MHz ; -45, 60MHz ; -40, 100MHz ; -35
5. INSERTION LOSS (1MHz-100MHz) : 1.0dB MAX.
6. RETURN LOSS (dB MIN. @100  $\Omega$ ) :
 

| 1-30MHz | 40MHz | 50MHz | 60-80MHz | 100MHz |
|---------|-------|-------|----------|--------|
| -18     | -14.4 | -13.1 | -12      | -10    |
7. DIFFERENTIAL TO COMMON MODE REJECTION (dB MIN.) :
 

| 30MHz | 60MHz | 100MHz |
|-------|-------|--------|
| -40   | -35   | -30    |

|           |                                   |            |         |       |       |                                                                                       |  |                                   |  |
|-----------|-----------------------------------|------------|---------|-------|-------|---------------------------------------------------------------------------------------|--|-----------------------------------|--|
|           |                                   |            |         |       |       |  |  | TITLE 100/1000 BASE-T TRANSFORMER |  |
|           |                                   |            |         |       |       |                                                                                       |  | DWG. NO. ATPL-107AR               |  |
| A         | CHANGE ELECTRICAL CHARACTERISTICS | 12/07/2016 | SHIRLEY | BETTY | BETTY | UNITS: M/M                                                                            |  | SAFETY                            |  |
|           | RELEASE                           | 11/04/2010 | SHIRLEY | BETTY | BETTY |                                                                                       |  |                                   |  |
| NO:       | DESCRIPTION                       | DATE       | BY      | CHK   | APPD  | DATE 11/04/10                                                                         |  | P/N:                              |  |
| REVISIONS |                                   |            |         |       |       |                                                                                       |  | DRAW SHIRLEY                      |  |

### 3. Package:



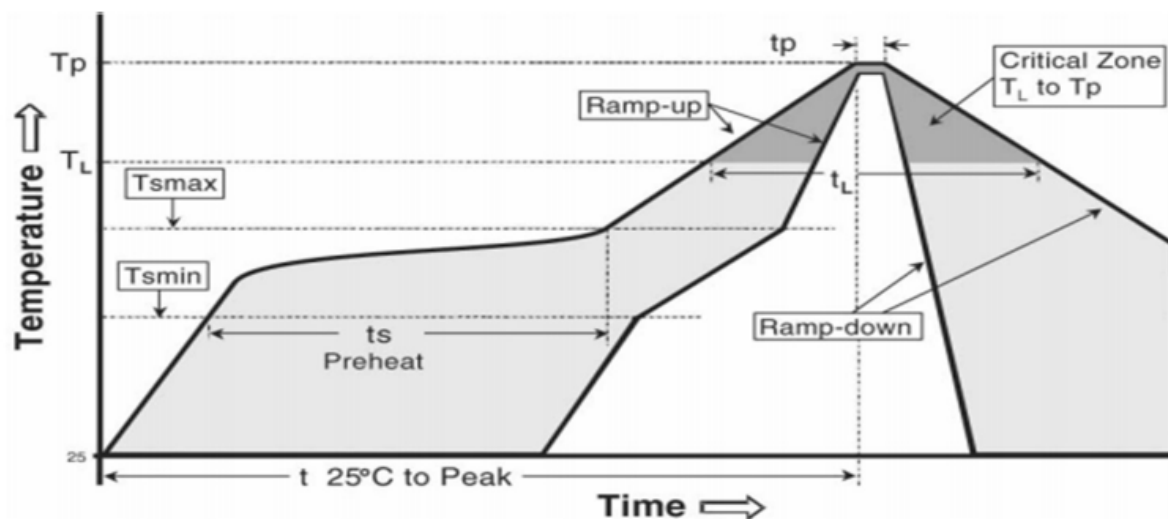
| Product           | PCS/Reel | PCS/Box    | Product No. | Weight(g/pcs) |
|-------------------|----------|------------|-------------|---------------|
| SMD 24 PIN Series | 400      | 400x6=2400 |             | 1.45          |

#### Remarks:

- 1) Packing Level & Storage Condition based on MSL1
- 2) ESD package
- 3) Parts packaging meet EIA-481 standard (pull 0.26N~1.3N)

## Pb-free Soldering Heat Withstanding Survey

### SUGGEST PROFILE



reflow profile

Form-1 (Reference JEDEC J-STD-020D Table 5-2) )

| Profile Feature                                              | Sn-Pb Eutectic Assembly | Pb-Free Assembly |
|--------------------------------------------------------------|-------------------------|------------------|
| Average ramp-up rate<br>(Tsmax to Tp)                        | 3°C/second max          | 3°C/second max   |
| Preheat<br>Temperature Min (Tsmín)                           | 100°C                   | 150°C            |
| Temperature Min (Tsmax)                                      | 150°C                   | 200°C            |
| Time (Tsmín to Tsmax) (ts)                                   | 60-120seconds           | 60-180seconds    |
| Time maintained above<br>Temperature (TL)                    | 183°C                   | 217°C            |
| Time (tL)                                                    | 60-150seconds           | 60-150seconds    |
| Peak Temperature (Tp)                                        | 225°C                   | 260°C            |
| Time within 5°C of actual Peak Temperature (Tp) <sup>2</sup> | 20 seconds              | 30 seconds       |
| Ramp-down Rate                                               | 6°/second max           | 6°/second max    |
| Time 25°C to Peak Temperature                                | 6minutes max            | 8minutes max     |