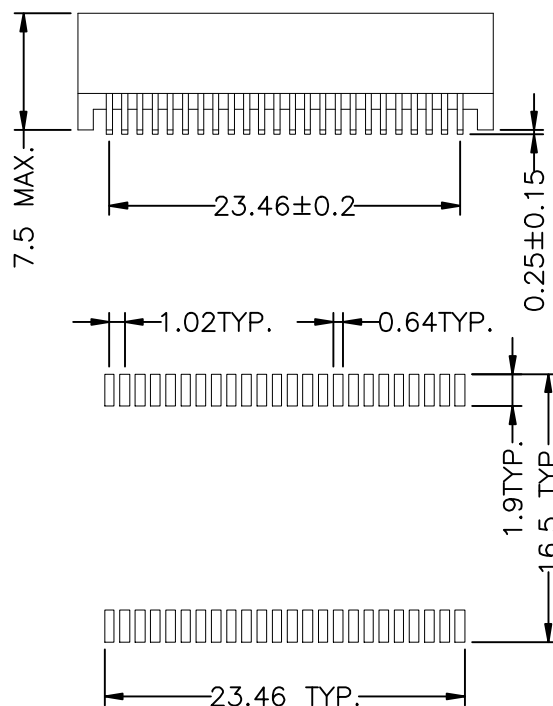
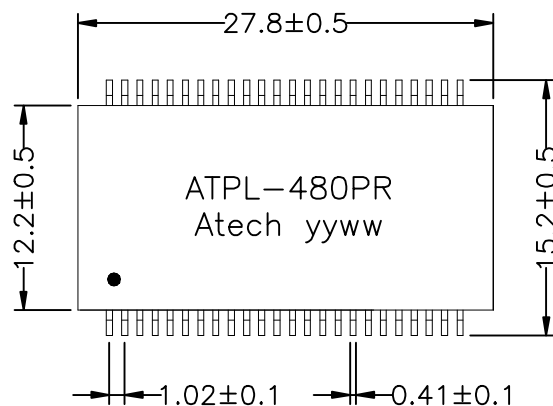
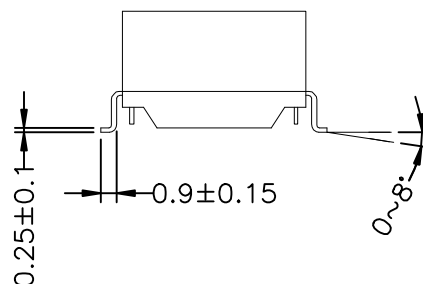




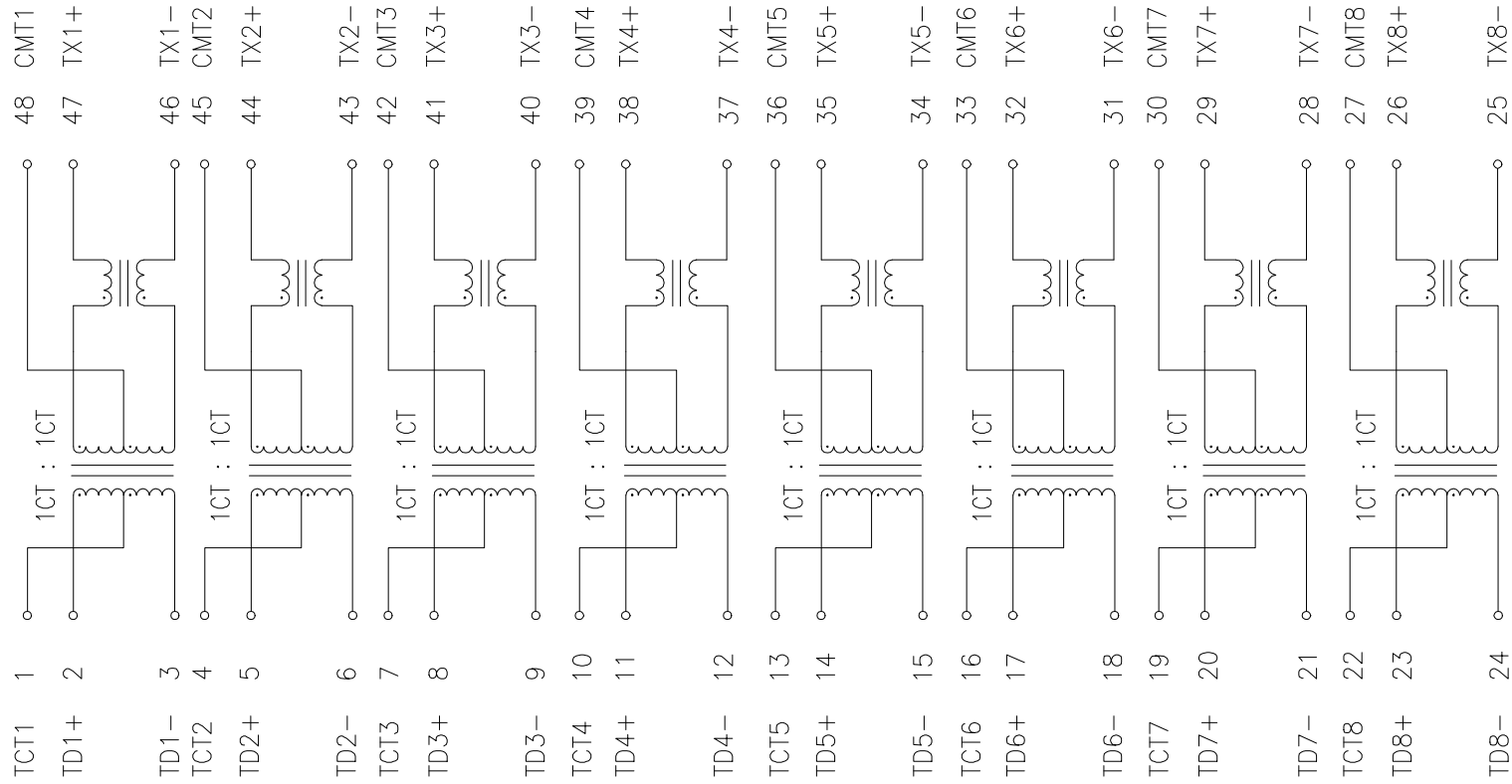
SUGGESTED PAD LAYOUT



#### ELECTRICAL CHARACTERISTICS@25°C

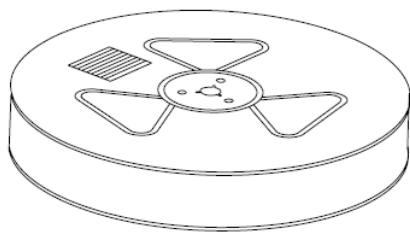
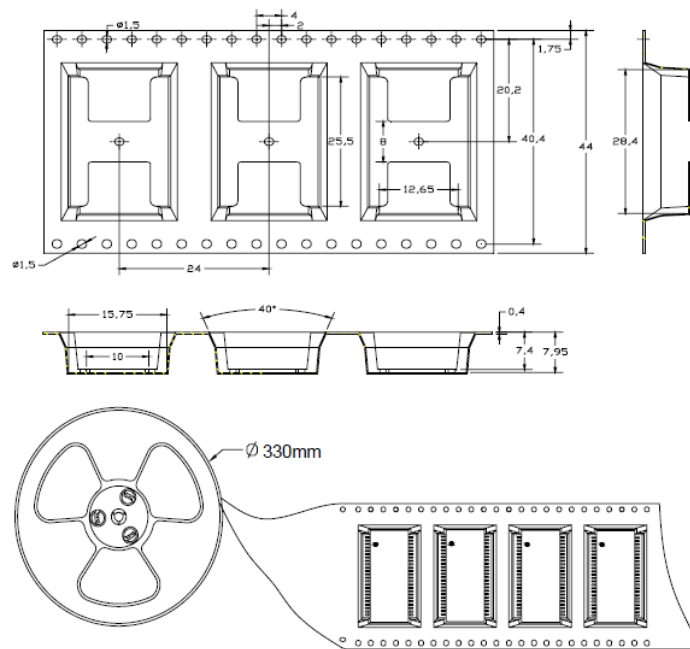
1. OCL : (@100kHz, 0.1V, 14mA DC BIAS) : 200uH MIN.
2. LEAKAGE INDUCTANCE : (@100kHz, 0.1V) : 0.5uH MAX.
3. DCR : 1.0Ω MAX.
4. TURNS RATIO : 1CT : 1CT  $\pm 5\%$
5. INSERTION LOSS : (@1-150MHz) : -1.5dB MAX.
6. RETURN LOSS : PHY SIDE TO LINE SIDE (ON LOAD 100Ω)
  - (@1-30MHz) : -20dB MIN.
  - (@30-60MHz) : -16dB MIN.
  - (@60-80MHz) : -14dB MIN.
  - (@80-100MHz) : -10dB MIN.
  - (@100-125MHz) : -9dB MIN.
  - (@125-150MHz) : -8dB MIN.
7. CROSS TALK : (@1-150MHz) : -30dB MIN.
8. COMMON MODE REJECTION : (@1-150MHz) : -30dB MIN.
9. ISOLATION HIPOT : (@1500VAC, 1mA, 60S)
10. OPERATING TEMPERATURE : 0°C TO +70°C
11. STORAGE TEMPERATURE : -25°C TO +125°C
12. Suitable for End-span PoE Application with 350mA current Capability
13. RoHS COMPLIANT

|           |             |                |         |       |       |                                                                                       |        |                                         |                 |
|-----------|-------------|----------------|---------|-------|-------|---------------------------------------------------------------------------------------|--------|-----------------------------------------|-----------------|
|           |             |                |         |       |       |  |        | TITLE<br>2.5G BASE-T<br>PoE TRANSFORMER |                 |
|           |             |                |         |       |       |                                                                                       |        | DWG. NO.<br>ATPL-480PR                  |                 |
|           | RELEASE     | 04/06<br>/2017 | SHIRLEY | BETTY | BETTY | UNITS:<br>M/M                                                                         | SAFETY |                                         | SHEET 1 OF 2    |
| NO:       | DESCRIPTION | DATE           | BY      | CHK   | APPD  | DATE<br>04/06/17                                                                      | P/N:   |                                         | DRAW<br>SHIRLEY |
| REVISIONS |             |                |         |       |       |                                                                                       |        |                                         |                 |

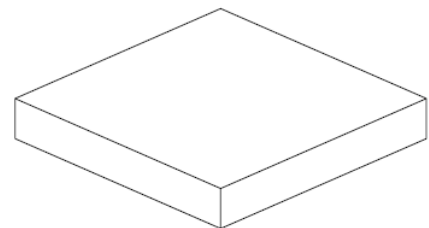


|           |             |            |         |       |       |                                                                                       |  |                                         |  |
|-----------|-------------|------------|---------|-------|-------|---------------------------------------------------------------------------------------|--|-----------------------------------------|--|
|           |             |            |         |       |       |  |  | TITLE<br>2.5G BASE-T<br>PoE TRANSFORMER |  |
|           |             |            |         |       |       |                                                                                       |  | DWG. NO.<br>ATPL-480PR                  |  |
|           | RELEASE     | 04/06/2017 | SHIRLEY | BETTY | BETTY | UNITS:<br>M/M                                                                         |  | SAFETY                                  |  |
| NO:       | DESCRIPTION | DATE       | BY      | CHK   | APPD  | DATE<br>04/06/17                                                                      |  | P/N:                                    |  |
| REVISIONS |             |            |         |       |       |                                                                                       |  | SHEET 2 of 2                            |  |
|           |             |            |         |       |       |                                                                                       |  | DRAW<br>SHIRLEY                         |  |

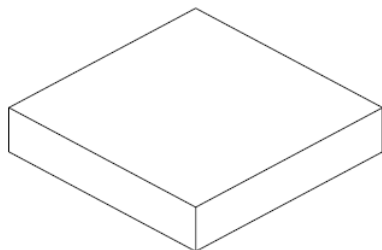
## Package :



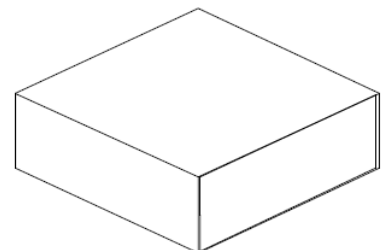
two reel



Inner Carton



two Inner Carton



Export Carton

### Package Quantity:

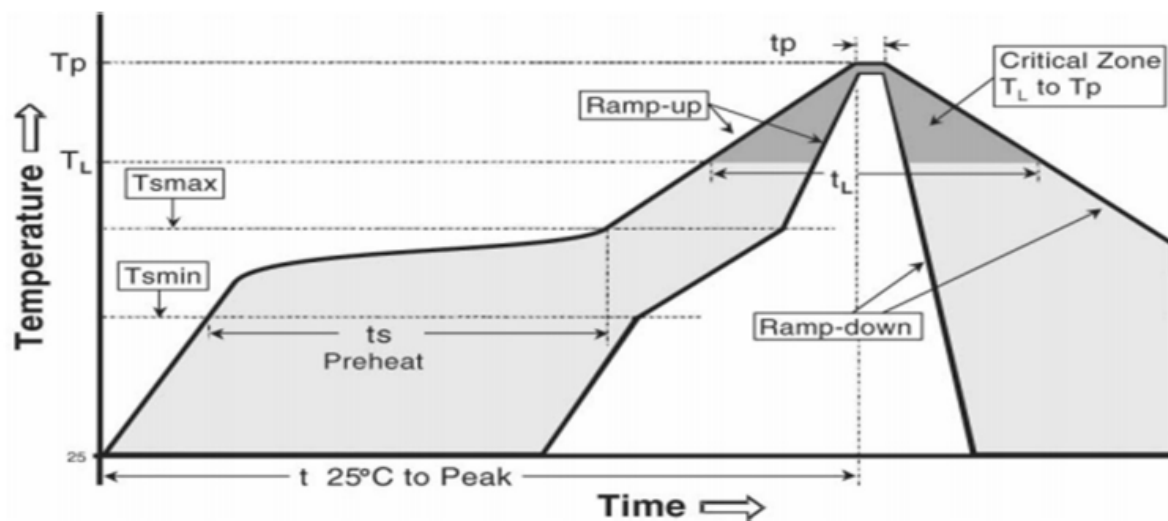
One Reel=350Pcs

One Inner Carton=350\*2=700Pcs

One Export Carton=700\*2=1400Pcs

## 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>( $T_{smax}$ to $T_P$ )                   | 3°C/second max          | 3°C/second max   |
| Preheat                                                           |                         |                  |
| Temperature Min ( $T_{smin}$ )                                    | 100°C                   | 150°C            |
| Temperature Min ( $T_{smax}$ )                                    | 150°C                   | 200°C            |
| Time ( $T_{smin}$ to $T_{smax}$ ) ( $t_s$ )                       | 60-120seconds           | 60-180seconds    |
| Time maintained above<br>Temperature ( $T_L$ )                    | 183°C                   | 217°C            |
| Time ( $t_L$ )                                                    | 60-150seconds           | 60-150seconds    |
| Peak Temperature ( $T_P$ )                                        | 225°C                   | 260°C            |
| Time within 5°C of actual Peak Temperature ( $T_P$ ) <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     |