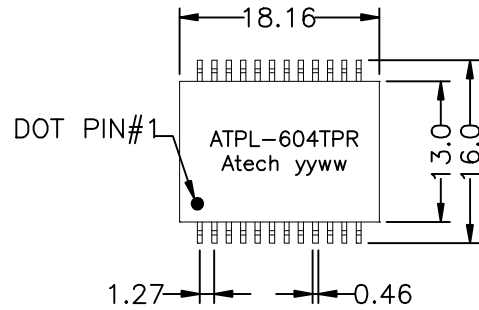
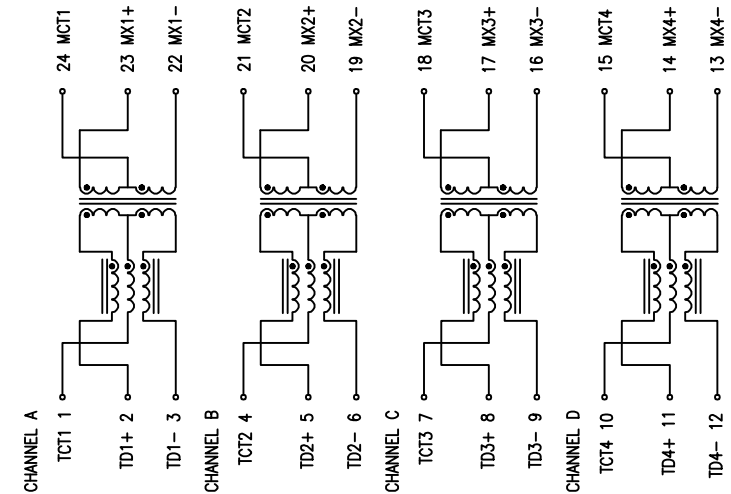


SUGGESTED PAD LAYOUT



* RoHS COMPLIANT

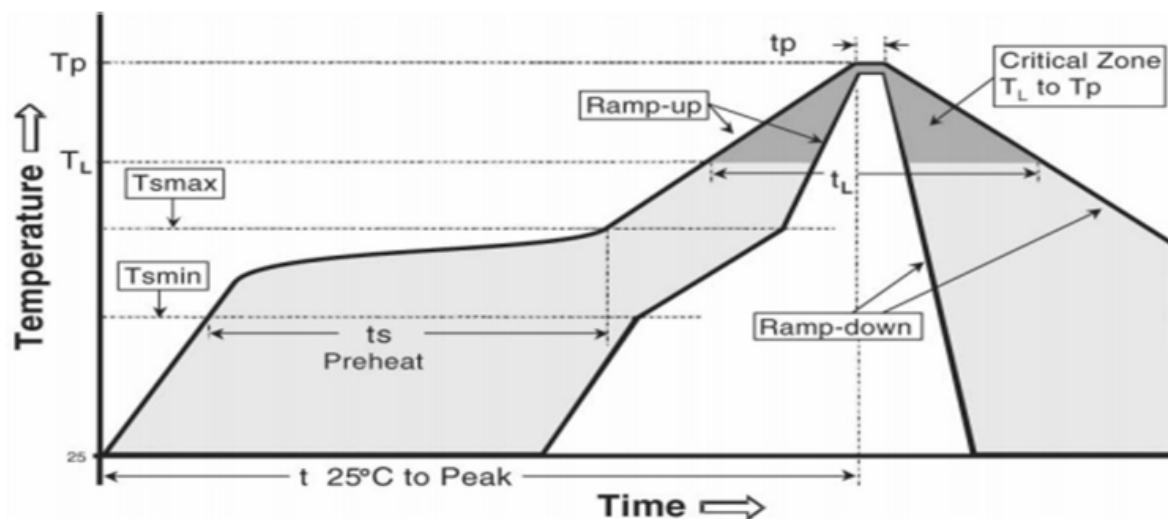
ELECTRICAL CHARACTERISTICS@25°C

1. OCL : (@100kHz, 0.1V) : 120uH MIN. with 30mA DC Bias
2. DCR : 1.0Ω MAX.
3. TURNS RATIO : 1CT : 1CT ±5%
4. INSERTION LOSS : 1-50MHz : -0.5dB MAX.
50-125MHz : -1.0dB MAX.
125-200MHz : -2.0dB MAX.
5. RETURN LOSS : 1-40MHz : -20dB MIN.
40-100MHz : -16dB MIN.
100-150MHz : -12dB MIN.
150-200MHz : -8dB MIN.
6. CROSS TALK : 1-125MHz : -30dB MIN.
7. COMMON MODE REJECTION : (@1-200MHz) : -30dB MIN.
8. ISOLATION HIPOT : (@4000VAC, 1mA, 2S)
9. COMPLIANT WITH IEEE 802.3bz & 802.3bt STANDARD
10. PoE applications current capability: 1A with two pairs(each 0.5A)
11. OPERATING TEMPERATURE : -40°C TO +85°C
12. STORAGE TEMPERATURE : -40°C TO 105°C

						AOEM		TITLE	
								2.5 BASE-T	
								PoE TRANSFORMER	
								DWG. NO.	
								ATPL-604TPR	
	RELEASE	10/04/2023	SHIRLEY	BETTY	BETTY	UNITS:		SAFETY	
						M/M			
NO:	DESCRIPTION	DATE	BY	CHK	APPD	DATE		P/N:	
						10/04/23			
REVISIONS								SHEET 1 of 1	
								DRAW	
								SHIRLEY	

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 (Tsmax to Tp)	3°C/second max	3°C/second max
Preheat Temperature Min (Tsmmin)	100°C	150°C
Temperature Min (Tsmmax)	150°C	200°C
Time (Tsmmin to Tsmmax) (ts)	60-120seconds	60-180seconds
Time maintained above 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) ²	20 seconds	30 seconds
Ramp-down Rate	6°/second max	6°/second max
Time 25°C to Peak Temperature	6minutes max	8minutes max