

- ⊗ 1500VDC isolation between Gate and Drive.
- ⊗ Moisture Sensitivity Level: 1
- ⊗ Lead Finish: Pure Tin
- ⊗ Operating Frequency: 50kHz and up.

Electrical Specifications @ 25 °C – Operating Temperature – 40°C to +125 °C

| Part Number | Turns Ratio (±5%) | | ET (V * μsec) MAX | Inductance 50kHz 300mVrms (mH MIN) | Leakage Inductance 100kHz 20mVrms (μH MAX) | DC Resistance (Ω MAX) | | | Dielectric Withstand Voltage 60s MIN (VDC) | | |
|-------------|-------------------|-------------|-------------------|------------------------------------|--------------------------------------------|-----------------------|-------|-------|--------------------------------------------|-------|----------------|
| | (3-6):(1-8) | (4-5):(1-8) | | | | (1-8) | (1-8) | (1-8) | (3-6) | (4-5) | (1-8) to (3-6) |
| PL3445NL | 1.0 | 1.0 | 75 | 5.0 | 2.0 | 2.6 | 2.6 | 2.6 | 1500 | 1500 | 500 |

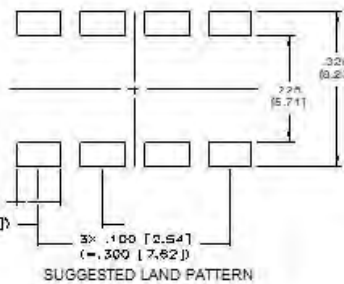
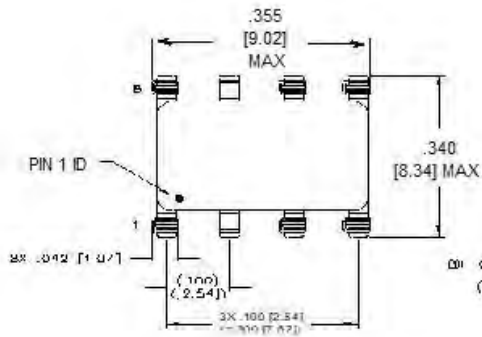
Notes: 1. The Maximum volt-μsec rating for the unipolar drive application. For bi-polar drive applications, a maximum volt-sec of two times this rating is acceptable.

2. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (ex: **PL3445NLT**)

Mechanical

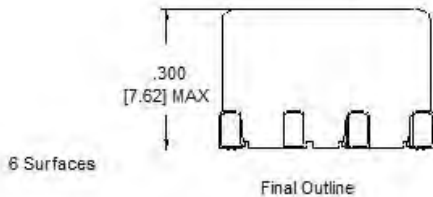
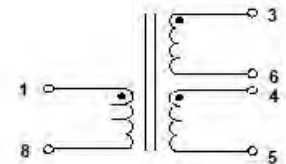
Electrical Schematic

PL3445NL

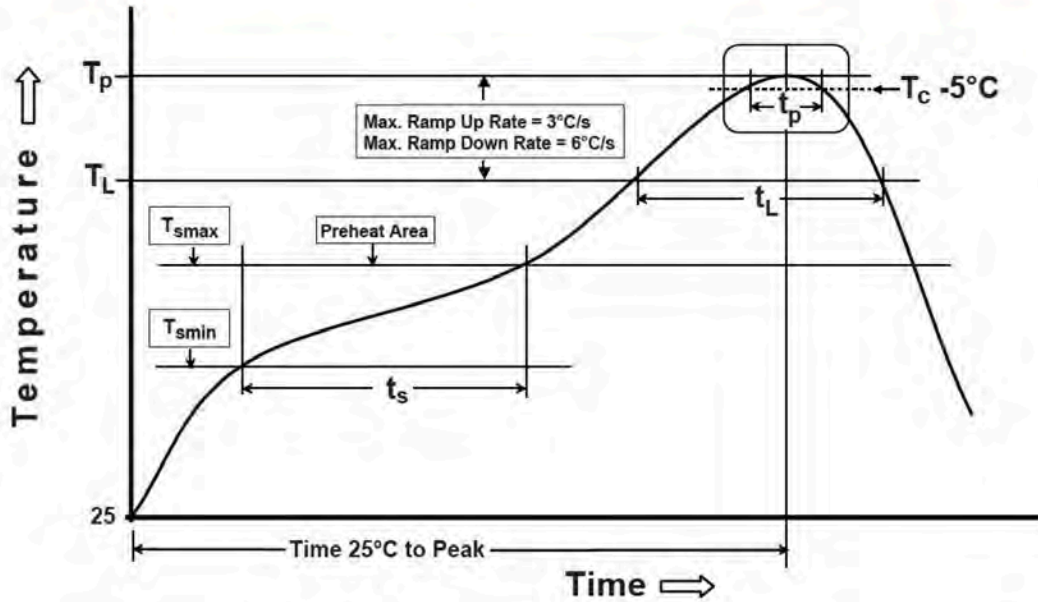


Dimensions: inches [mm]

Unless otherwise specified, all tolerances are +/- .010 [0.25]



Non-Lead Recommended Reflow Profile (Based on J-STD-020D)



| T_{SMIN} (°C) | T_{SMAX} (°C) | T_L (°C) | T_P (°C MAX) | t_s (s) | t_L (s) | t_p (s MAX) | Ramp-up rate (T_L to T_P) | Ramp-down rate (T_P to T_L) | Time 25°C to peak temperature (s MAX) |
|--------------------|--------------------|---------------|-------------------|--------------|--------------|------------------|------------------------------------|--------------------------------------|---------------------------------------------|
| 150 | 200 | 217 | 245 | 60-120 | 60-150 | 30 | 3°C/s MAX | 6°C/s MAX | 480 |

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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