GATE DRIVE TRANSFORMER

Military/Aerospace Grade



- Surface Mount Package - Pick and Place Compatible
- Ambient Operating Temperature: -55ºC to +125ºCº
- Storage & Operating Temperature: -55ºC to +125º
- Operating Frequency: 50kHz and Up
- >1500VDC Isolation between Gate and Drive
- Basic Insulation (1.4mm creepage/clearance) and functional available

Electrical Specifications 25°C							
Part [3,4] Number	Turns Ratio	Pri-Sec Insulation	Max[1] (V*µsec)	Primary Inductance (µH MIN)	Leakage [2] Inductance	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)
PL3057	1.25 : 1	1500 Vdc	27.2	1200	0.68	.91	0.380

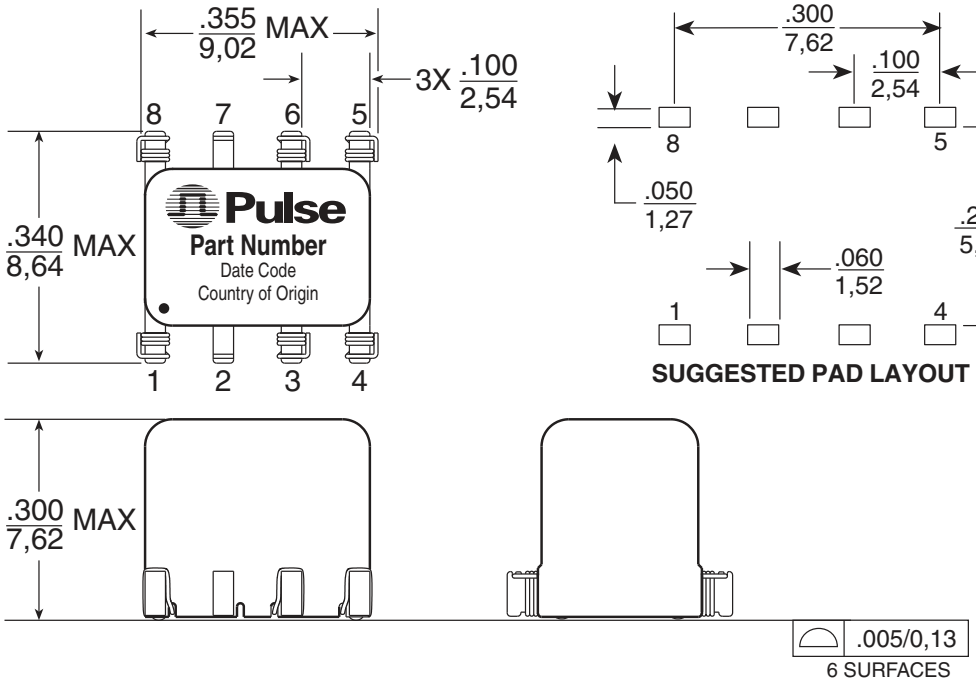
Notes:

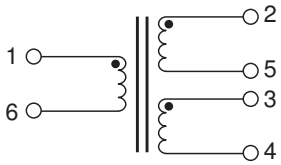
1. The maximum volt-µsec rating limits the peak flux density to 2200 Gauss when used in a unipolar drive application. For bi-polar drive applications a maximum volt-µsec of two times this rating is acceptable (ie: 2* (volt*µsec rating) Volt*µsec = (voltage applied to the primary) * dutycycle / Frequecy = V * alpha / Freq_Hz = V * µsec
2. Leakage inductance is measured at primary terminals with all secondaries shorted.
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL2973 becomes PL2973T). Pulse complies to industry standard tape and reel specification EIA481.
4. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic

PL3057





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