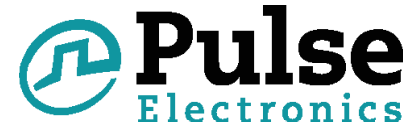


GATE DRIVE TRANSFORMER

Military/Aerospace Grade



- Surface Mount Package - Pick and Place Compatible
- Ambient Operating Temperature: -55°C to +125°C°
- Storage & Operating Temperature: -55°C to +125°
- Operating Frequency: 50kHz and Up
- >1500V_{DC} 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

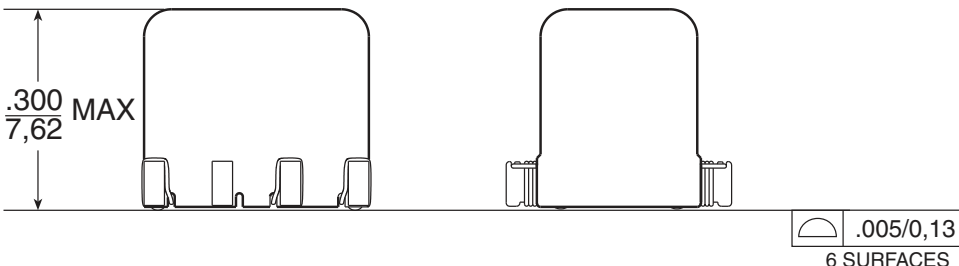
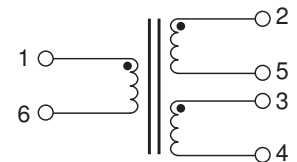
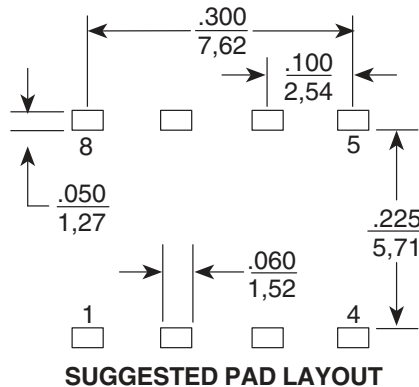
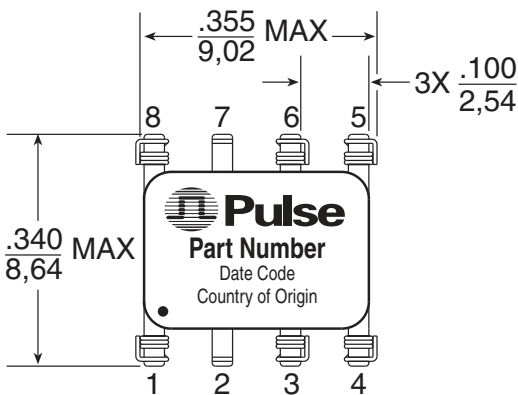
Notes:

- 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 / Frequency = V * alpha / Freq_Hz = V * μsec
- Leakage inductance is measured at primary terminals with all secondaries shorted.
- 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.
- 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

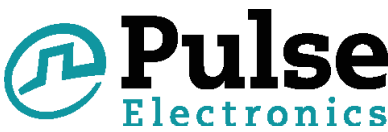
Schematic

PL3057



GATE DRIVE TRANSFORMER

Military/Aerospace Grade



For More Information

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