

New

GDAU-004

Push-pull Gate-Drive Transformer 1:1.3:1.3 2x11V_{us}

INDUCTIVE COMPONENTS / GATE-DRIVE TRANSFORMER



APPLICATIONS

- › Automotive BMS in onboard battery chargers

01 FEATURES

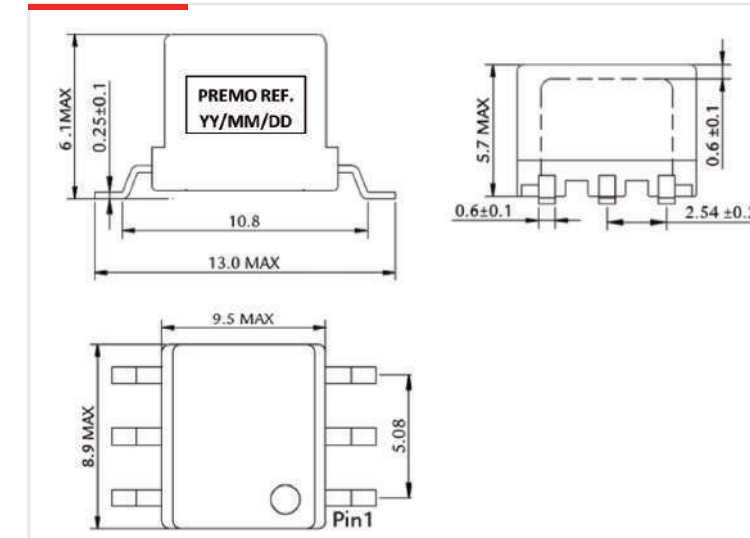
- › Pulse transformer for battery management system
- › Reinforced insulation at 3kV in pollution degree 2
- › Creepage distance > 8mm
- › ETmax product of 11V_{us} across each half primary
- › Maximum current 150mA
- › Wide operating temperature range -40 to +125°C
- › UL94 and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 2grams
- › Tape&Reel packaging 13" W24mm

02 OPERATION

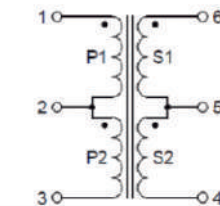
- › Pulse transformer with high insulation level
- › Push-pull mode

03 SPECIFICATIONS

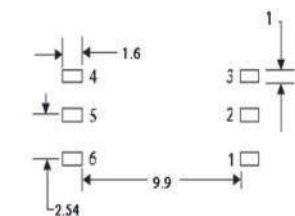
DIMENSIONS



ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C

L_{1-3} (100kHz/10mVac)	430 μ H \pm 25%
L_{4-6} (100kHz/10mVac)	713 μ H \pm 25%

TURN-RATIO

$N_{1-2} : N_{2-3} : N_{6-5} : N_{5-4}$	1:1:1.29:1.29
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DC RESISTANCE at 25°C

DCR_{1-3}	0.38 Ω MAX
DCR_{4-6}	0.38 Ω MAX

INSULATION RESISTANCE

RINS Prim/Sec (500Vdc)	> 1G Ω
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DIELECTRIC STRENGTH

DWI Prim/Sec	3kVac (50Hz/1mA/1min)
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DIELECTRIC STRENGTH

Between Windings	500Vac (50Hz/3mA/1min)
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