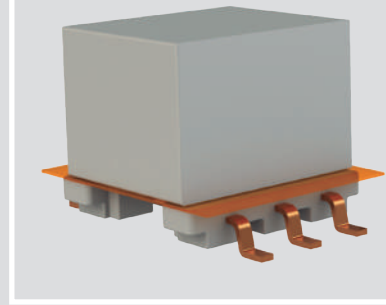


New

GDAU-003

Gate-Drive Transformer 2:1 200Vus

INDUCTIVE COMPONENTS / GATE-DRIVE TRANSFORMER



APPLICATIONS

- › Automotive PFC stage in onboard battery chargers

01 FEATURES

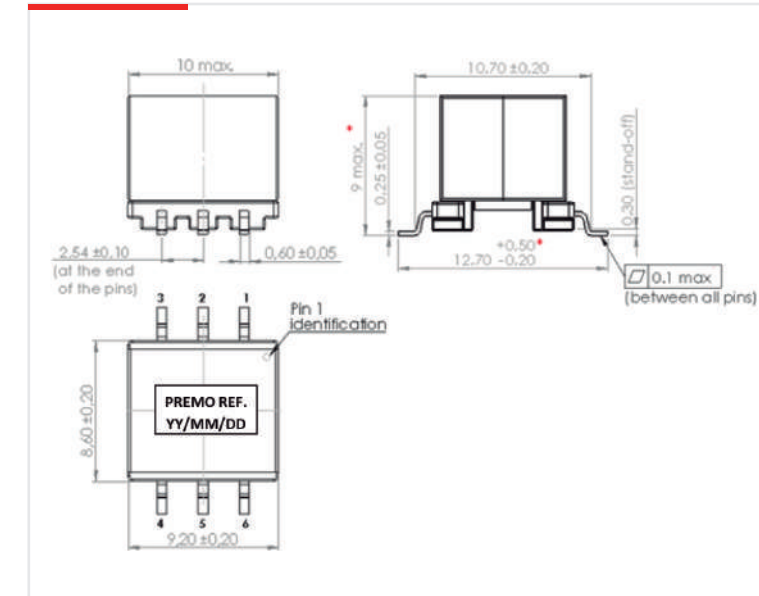
- › Gate-Drive transformer for thyristors driver
- › Working voltage up to 500Vdc
- › Functional insulation at 500V
- › ETmax product of 200Vμs
- › Wide operating temperature range -40 to +105°C
- › UL94 and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 2grams

02 OPERATION

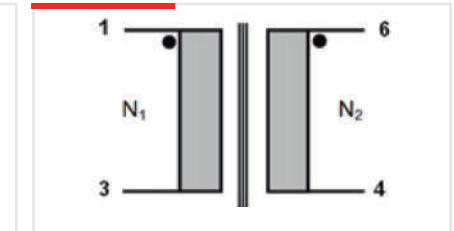
- › Thyristors driver control where only functional insulation is needed

03 SPECIFICATIONS

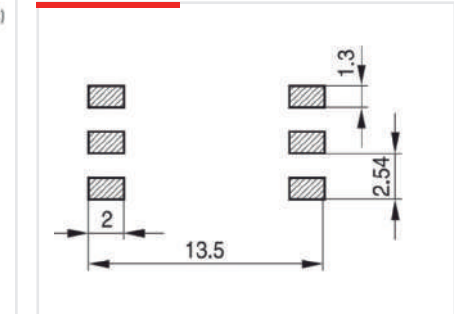
DIMENSIONS



ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C	
L_{1-3} (10kHz/50mVac)	$3\text{mH} \leq 5\text{mH TYP} \leq 7\text{mH}$
TURN-RATIO	
$N_{1-3} : N_{6-4}$ (10kHz/1Vac)	2:1
DC RESISTANCE at 25°C	
DCR_{1-3}	1.2Ω MAX (0.98Ω TYP)
DCR_{4-6}	0.6Ω MAX (0.45Ω TYP)
LEAKAGE INDUCTANCE	
LLk_{1-3} (100kHz/1Vac)	13μH MAX
STRAY CAPACITANCE	
CPS (100kHz/1Vac)	15pF MAX
DIELECTRIC STRENGTH	
Between Windings	500Vac (50Hz/3mA/1min)