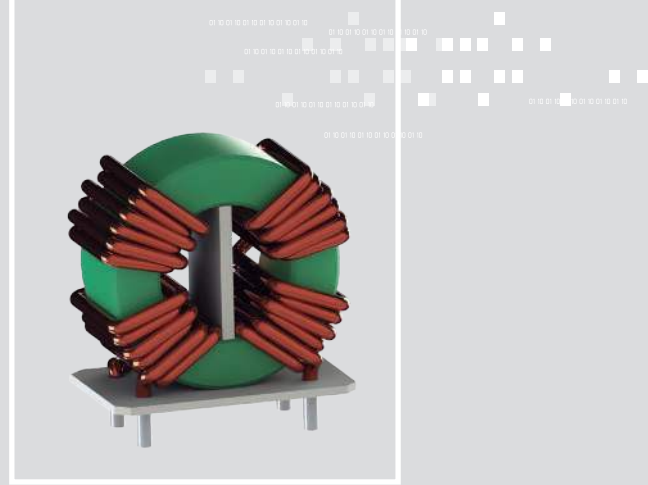


New

CMCN10R-16V

Common Mode Choke 2x10mH / 16Arms

INDUCTIVE COMPONENTS / COMMON MODE CHOKES



APPLICATIONS

- › Automotive EV/PHV AC/DC onboard battery chargers
- › Automotive HV/LV DC/DC converters

01 FEATURES

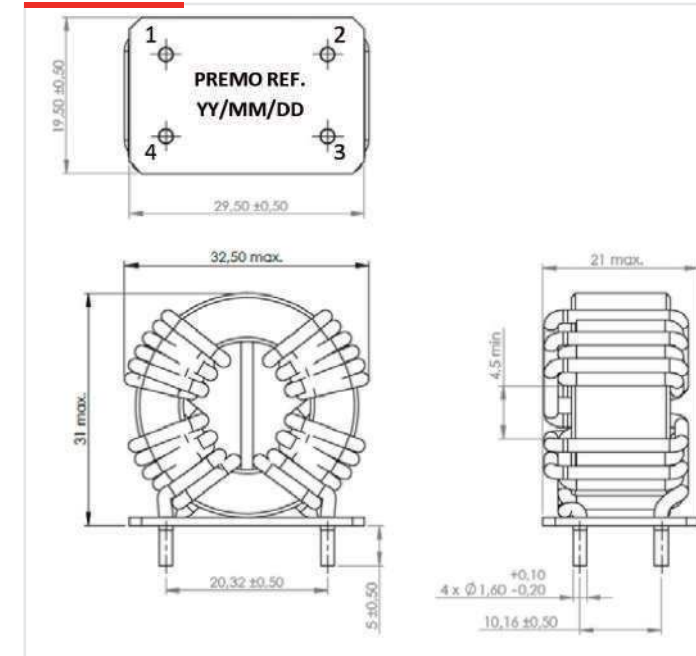
- › High performance CMC using nanocrystalline core
- › Optimized size for high power density vs. good attenuation
- › Wide operating temperature range -40 to +140°C
- › UL94V and RoHS materials
- › AEC-Q200 qualified
- › Weight : approx 30grams

02 OPERATION

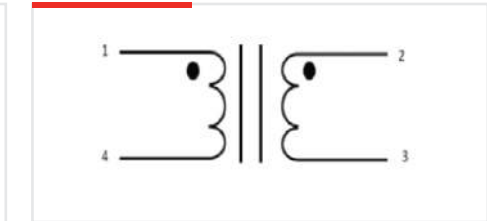
- › Up to 16A (RMS or DC) per winding
- › Total losses < 3.5W @100°C/2x16Arms
- › Cooling of the windings can be required

03 SPECIFICATIONS

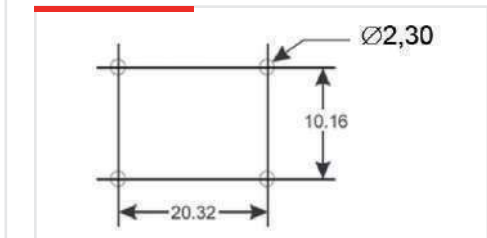
DIMENSIONS



ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C

$L_{1-4} = L_{2-3}$ (10kHz/0.3Vac)	10mH TYP (6.2-14.6mH)
$L_{1-4} = L_{2-3}$ (100kHz/0.3Vac)	1.5mH MIN

TURN-RATIO

$N_{1-4} : N_{2-3}$ (10kHz/1Vac)	1:1
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DC RESISTANCE at 25°C

$DCR_{1-4} = DCR_{2-3}$	5mΩ TYP (6mΩ MAX)
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LEAKAGE INDUCTANCE

$Llk_{1-4} = Llk_{2-3}$ (100kHz/1Vac)	6μH TYP (4.5-7.5μH)
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DIELECTRIC STRENGTH

Between Windings	1500Vac (50Hz/3mA/1min)
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