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

FEATURES

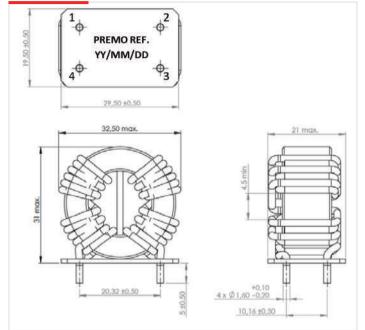
- > High performance CMC using nanocrystalline core
- > Optimized size for high power density vs. good attenuation
- > Wide operating temperature range -40 to +140°C
- > UL94V and RoHS materials
- > AEC-Q200 qualified
- > Weight : approx 30grams

OPERATION

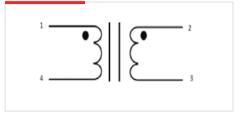
- > Up to 16A (RMS or DC) per winding
- > Total losses < 3.5W @100°C/2x16Arms
- > Cooling of the windings can be required

SPECIFICATIONS

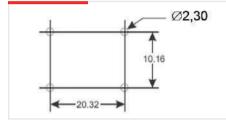
DIMENSIONS



ELECTRICAL DIAGRAM



RECOMMENDED PAD-LAYOUT



ELECTRICAL SPECIFICATIONS

INDUCTANCE at 25°C 10mH TYP (6.2-14.6mH) $L_{1-4} = L_{2-3}$ (10kHz/0.3Vac) 1.5mH MIN $L_{1-4} = L_{2-3}$ (100kHz/0.3Vac) TURN-RATIO 1:1 $N_{1-4}: N_{2-3}$ (10kHz/1Vac) DC RESISTANCE at 25°C 5mΩ TYP (6mΩ MAX) $DCR_{1-4} = DCR_{2-3}$ LEAKAGE INDUCTANCE $Llk_{1-4} = Llk_{2-3}$ (100kHz/1Vac) 6μH TYP (4.5-7.5μH) **DIELECTRIC STRENGHT** 1500Vac (50Hz/3mA/1min) Between Windings