CODACA

Vehiche-Grade Moding Power Choke VSHB-T Series

- Low loss, low DCR, high power supply efficiency
- Operating temperature -55°C ~ +165°C, AEC-Q200 compliant

General Description

In order to meet the demand for automotive DC/DC converter inductors, Codaca has launched the newest low loss, high reliability, high temperature resistant vehiche-crade moding power choke VSHB-T series. VSHB-T series adopts Codaca's self-developed low-loss, high-frequency alloy powder and Integrated molding structure, effectively reduce the inductor's loss.

The T-core pre-molding effectively solves the problem of coil tilting and deformation under pressure, improves the magnetic powder molding density, eliminates the risk of inter-layer short circuit, and improves product consistency. The products have strong resistance to thermal and cold shock, mechanical shock and vibration, etc. VSHB-T series can be widely used in automotive lamps, audio and entertainment, T-box, ADAS and other automotive electronic components.

Features

- Low loss alloy powder material, low DCR, high power supply efficiency
- T-core pre-molding, no coil tilt deformation, high reliability
- Magnetic shielding structure and electromagnetic interference (EMI)
- Operating temperature -55°C ~ +165 °C

Applications

Car Stereo

LED Driver

T-BOX

Motor Control

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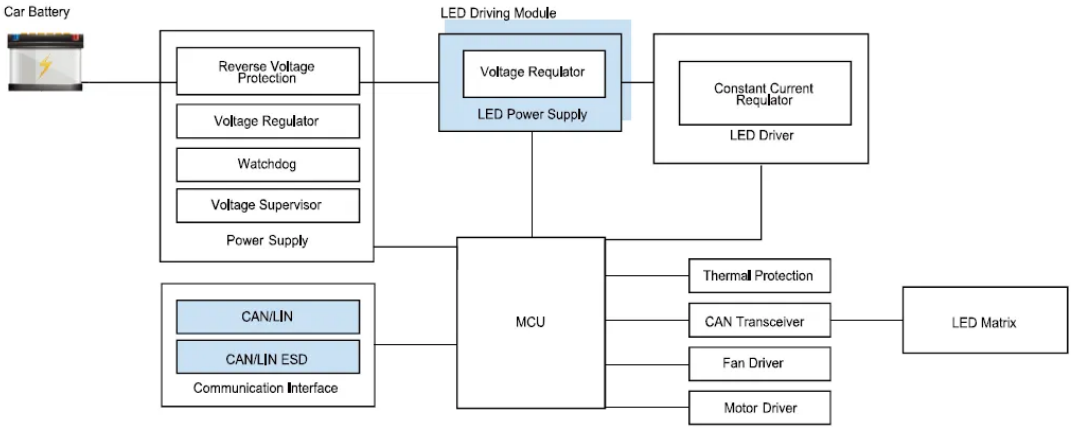
Moding Power Choke
VSHB-T Series

Topology

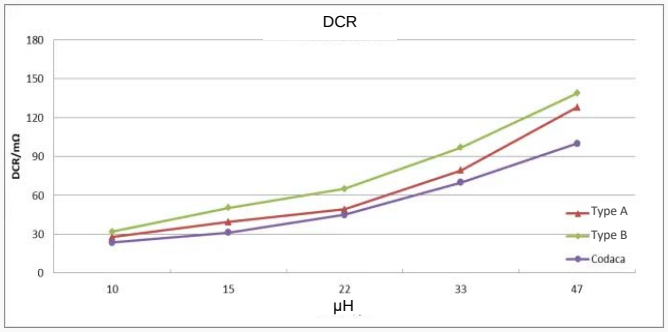


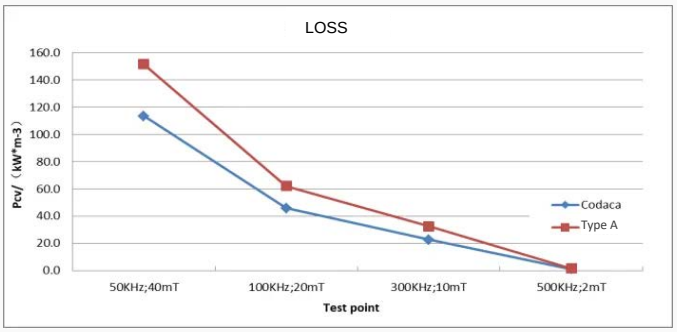
Applications in automotive lamps

Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
VSHB0754T	1.50~100	6.90~280	2.40~16.5	1.90~11.6	7.70X7.40X5.20
VSHB1054T	1.00~100	2.30~190	3.30~28.5	3.00~30.0	10.85X10.2X5.20
VSHB1060T	8.20~82.0	13.5~117	4.00~13.2	3.30~11.5	10.85X10.2X5.80

DCR & Loss Curve





Quality Management System

· IATF16949
· CNAS laboratory
· ISO9001
· ISO14001
· ISO45001

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free | AEC-Q200 -55~+165°C

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