

Vehicle-grade Molded Power Inductor VSEB Series

- Low loss, high saturation, wide frequency and temperature range
- Design for high efficiency, high power density DC-DC converter
- Compliant with AEC-Q200 (-40°C~+125°C)



General Description

To meet the demand for high efficiency power inductors for automotive DC/DC converters, Codaca has launched the newest vehicle-grade molded power inductor VSEB series. The VSEB series adopts Codaca's self-developed low-loss, high-frequency alloy powder and integrated molding structure, effectively reduce the inductor's loss. It's characterized by low loss, high efficiency, wide frequency and wide temperature.

The VSEB series has excellent soft saturation characteristics and can withstand high peak currents without saturation. It complies with AEC-Q200 standards and operates at temperatures ranging from -40°C~+125°C, maintaining good current stability in high-frequency and high-temperature environments. The inductors are designed with a magnetically-shielded structure, excellent resistance to electro-magnetic interference(EMI).

Features



Low loss alloy powder material, low DCR, high power supply efficiency



Lightweight design, save space, suitable for high density SMT



Magnetic shielded structure, excellent resistance to electromagnetic interference(EMI)



Operating temperature: -40°C~+125°C

Applications



Car Stereo



LED Driver

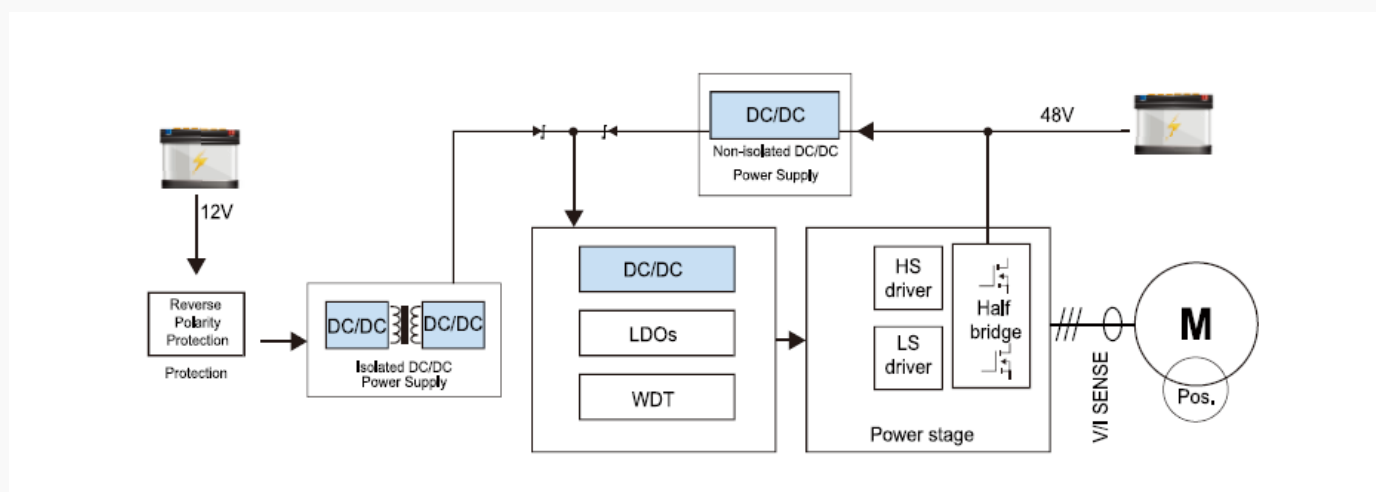


T-BOX



BMS

■ Topology



■ Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
VSEB0630	0.18~4.70	1.32~31.0	8.00~39.0	6.50~32.0	6.65×6.45×3.00
VSEB0730	0.16~6.80	1.15~32.0	8.70~60.0	6.80~32.5	7.90×7.60×3.00
VSEB0770	0.80~6.80	2.10~17.0	12.8~37.8	9.20~25.8	7.90×7.60×6.80
VSEB0880	0.68~22.0	1.56~30.0	7.50~38.0	7.00~37.0	8.80×8.30×7.80
VSEB1030	0.16~2.20	1.10~9.90	25.0~88.0	15.0~42.0	11.6×10.5×3.00
VSEB1060	0.18~4.70	0.50~8.90	25.0~120	14.0~46.0	11.6×10.5×5.70
VSEB1090	1.00~33.0	1.38~36.2	10.5~40.0	9.00~33.5	11.6×15.0×8.80
VSEB1350	0.63~3.00	1.34~5.20	37.5~74.5	21.0~37.0	14.5×13.5×4.80
VSEB1508	1.00~6.10	0.88~5.10	31.0~73.5	22.6~57.5	16.4×15.4×8.00
VSEB1510	1.00~33.0	0.92~18.0	16.7~80.0	12.0~58.0	16.4×15.4×10.0

■ Quality Management System

- IATF16949
- CNAS laboratory
- ISO9001
- ISO14001
- ISO45001

