

Super High Current Moding Power Choke VPAB Series

- Saturation current 335A, operating temperature $-55^{\circ}\text{C}\sim+165^{\circ}\text{C}$
- Designed for power modules, car charging station, DC-DC converters, etc.



■ General Description

CODACA has newly launched the automotive-grade super high current molding power choke VPAB series. VPAB series can realize higher power, lower loss and smaller size under high frequency, high temperature and high current operating environment. They can meet the requirements of high power density and efficiency for most electronic devices.

VPAB series adopts high performance alloy composite material, flat wire winding and molded process. It has excellent current performance with saturation current up to 335 A. VPAB series has an operating temperature of $-55^{\circ}\text{C}\sim+165^{\circ}\text{C}$, and complies with AEC-Q200 Grade 0 standard. The inductance range of VPAB series is from $0.82\mu\text{H}$ to $3.30\mu\text{H}$, DCR range is 0.16 to $0.40\text{m}\Omega$, and temperature rise current range is 105A to 142A.

■ Features



Flat wire winding design for extremely low DCR



Saturation current up to 335A, more power, lower loss



Magnetic shielding structure and electromagnetic interference (EMI)



Compliant with AEC-Q200 Grade 0 standard, operating temperature $-55^{\circ}\text{C}\sim+165^{\circ}\text{C}$

■ Applications



Renewable Energy



Car Charging Station

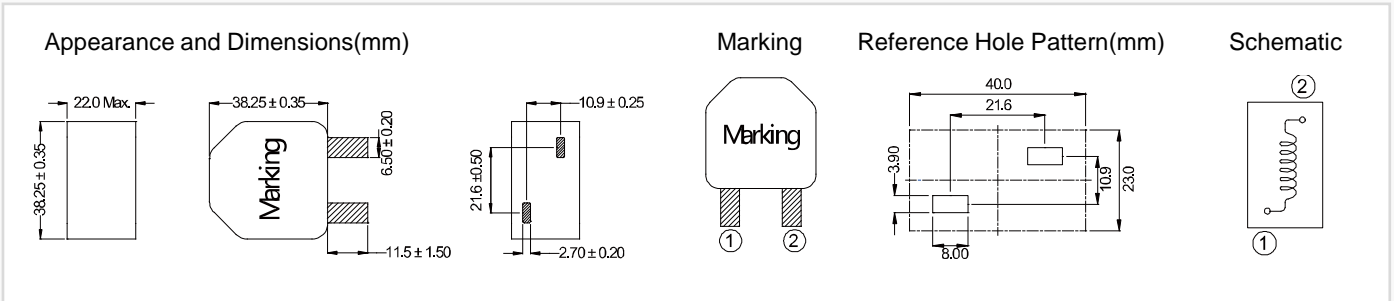


DC-DC Converters



On-Board Charger

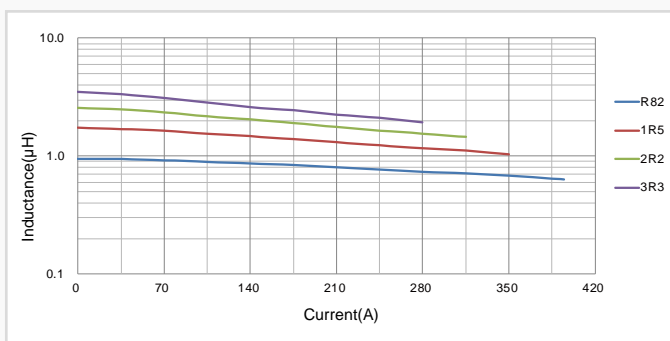
Appearance Dimension



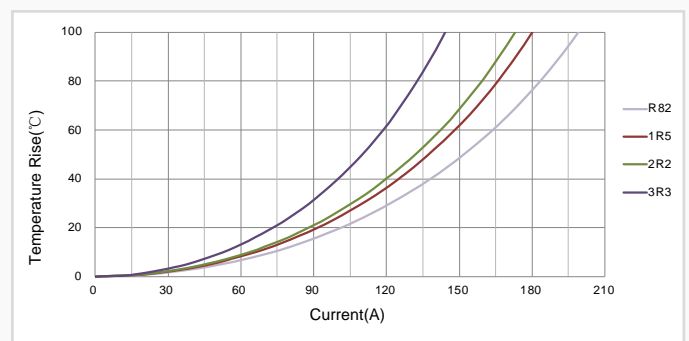
Electrical Characteristics

Part No.	Inductance (μH)	D.C.R. (mΩ)	Saturation current (A)	Temperature rise current (A)	Size LxWxH(mm)
VPAB3822-R82M	0.82	0.16	335	142	38.25x38.25x22.0
VPAB3822-1R5M	1.50	0.23	245	130	38.25x38.25x22.0
VPAB3822-2R2M	2.20	0.32	190	126	38.25x38.25x22.0
VPAB3822-3R3M	3.30	0.40	176	105	38.25x38.25x22.0

Current Curve



VPAB3822 Saturation Current Curve



VPAB3822 Temperature Rise Current Curve

Quality Management System

- IATF16949
- CNAS laboratory
- ISO9001
- ISO14001
- ISO45001

