

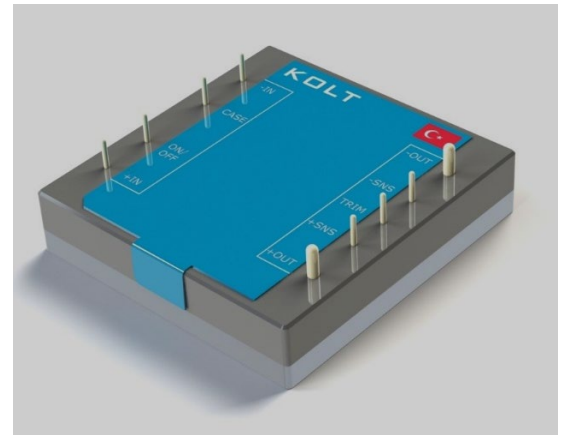
## Part Number & Ordering Information\*

Family	Input Voltage	Power	Output Voltage	Package	Baseplate	Options
KMBM03 KRBM03 (-55 °C)	DC28: 16-40 V	P300: 300 W P400: 400 W P500: 500 W	DC3V3: 3.3 V DC5: 5 V DC12: 12 V DC24: 24 V DC28: 28 V	HB: Half Brick	F: Flanged H: Half Threaded	PM: PMBUS

\* Full part numbering and options are available in the data sheet. "-" sign shall be placed in between all fields.

## Features & Benefits

- Delivers power up to 500 W
- Input UVLO and OVLO protections
- Output over voltage protection
- Output overcurrent protection
- Output short-circuit protection
- Thermal Shutdown
- ON/OFF control
- Trim range +15%, -30%
- PMBUS pins are only present in PMBUS option



Size: 63.2 x 60.6 x 12.9 mm

## Product Description

KMBM03/KRBM03 is an isolated half brick module that operates over a wide input voltage range from 16 V to 40 V and regulates voltages from 3.3 V to 28 V with very low ripple. This half brick DC-DC converter module delivers 500 W and 42 A continuous current. It is designed to meet EMI requirements and has superior noise and ripple performance. Converter is fully protected to operate reliably under all kinds of disturbances. The advanced thermal management of the brick engineered by KOLT allows operation of the converter in hot environment.

## Absolute Maximum Ratings

The absolute maximum ratings below are stress ratings only. Operation at or beyond these maximum ratings may cause permanent to the device.

Parameter	Value
Operating Temperature	-40 to +100 °C
Storage Temperature	-55 to +125 °C

## Designed to Meet

\*with EMI filter module

- MIL-STD-461 (D, E, F, G)
- MIL-STD-704 (A-F)
- MIL-STD-1275D
- MIL-STD-810

## KRBM03 Version

Parameter	Value
Operating Temperature	-40 to +100 °C
Storage Temperature	-55 to +125 °C

## Screening

- Full LOT traceability
- Burn-in at 100 °C baseplate temperature
- Temperature cycling
- Available with different screening grades
- Final visual inspection