

MAB 06 Series

3W SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

Features

- 2:1 Input range
- 500 VDC isolation voltage
- 24-pin DIP Package
- Efficiency to 80 %



Specifications

INPUT

Nominal voltage	12V, 24V, 48V.
Voltage range	9-18V, 18-36V, 36-72V.
Isolation	500VDC (3kV available).
Filter	PI-type

OUTPUT

Power	3W.
Regulation	Line: ±0.5%. Load: Single: ±0.5 %. Dual: ±1%. Single output models require 10% min load to meet specification. Dual output models require 25% min load to meet specification.
Setting accuracy	± 2%.
Ripple and noise	5 V: Max 100mV pp 12/15: max 1%Vpp)
Short circuit protection	Fold-back. Approx 80% of output current at short circuit.
Temp coefficient	±0.05 %/°C.
Efficiency	65-80 %.

ENVIRONMENTAL

Operating temperature	-25°C to +71°C.
Storage temperature	-40°C to +100°C.
Cooling	Convection.

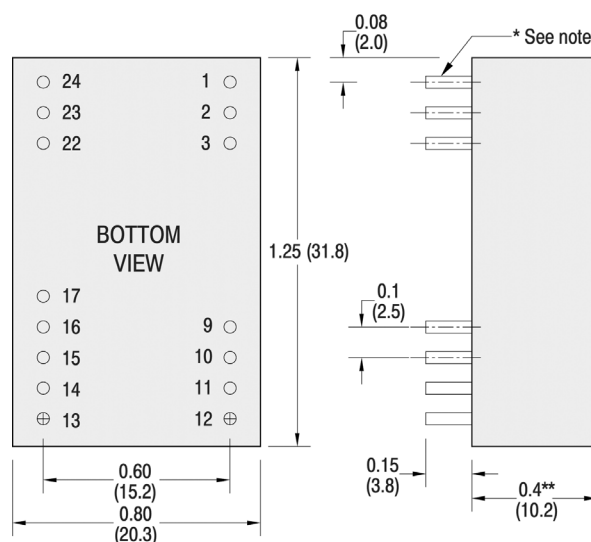
GENERAL

MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 100 kHz.
Equivalent capacitance	Single output: 80pF Dual output: 120pF
Case	Non-conductive black plastic.
Dimensions (H x W x L)	10.2 x 20.3 x 31.8 mm (height H-version 12.7 mm).
Weight	12g.

STANDARDS

EMI standards	EN55022 Class B
C-Tick	AS/NZS CISPR11 Group 1 Class A

Technical Illustration



* Pin size is 0.02" Inch (0.5mm) DIA, lengt 0,15 Inch (3,8mm).

Tolerance for the lenght is ±1 mm

** Height 0.5"/12.7mm on modules with suffix -H.

All dimensions are in Inches (mm)

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Selection Table

POWERBOX ARTICLE NUMBER	INPUT VOLTAGE VDC	OUTPUT VOLTAGE VDC	OUTPUT CURRENT MA	INPUT CURRENT NO LOAD MA	INPUT CURRENT FULL LOAD MA
3MAB 06 003	4.5-6	3.3	600	15	650
MAB 06 006	4.5-6	5	600	15	850
MAB 06 009	4.5-6	12	250	15	800
MAB 06 012	4.5-6	15	200	15	800
MAB 06 015	4.5-6	±5	300	25	800
MAB 06 018	4.5-6	±12	125	25	800
MAB 06 021	4.5-6	±15	100	25	800
MAB 06 024	9-18	3.3	600	7.5	254
MAB 06 027	9-18	5	600	7.5	340
MAB 06 030	9-18	12	250	7.5	320
MAB 06 033	9-18	15	200	7.5	320
MAB 06 036	9-18	±5	300	12	340
MAB 06 039	9-18	±12	125	12	320
MAB 06 042	9-18	±15	100	12	320
MAB 06 045	18-36	3.3	600	5	125
MAB 06 048	18-36	5	600	5	168
MAB 06 051	18-36	12	250	5	156
MAB 06 054	18-36	15	200	5	156
MAB 06 057	18-36	±5	300	7.5	168
MAB 06 060	18-36	±12	125	7.5	156
MAB 06 063	18-36	±15	100	7.5	156
MAB 06 066	36-72	3.3	600	3	61
MAB 06 069	36-72	5	600	2	82
MAB 06 072	36-72	12	250	2	78
MAB 06 075	36-72	15	200	2	78
MAB 06 078	36-72	±5	300	3	82
MAB 06 081	36-72	±12	125	3	80
MAB 06 084	36-72	±15	100	3	80

For isolation voltage 3kV add suffix -H to the article number. Ex MAB 06 003H.

Standard Pin Connection 500VDC

IN	SINGLE OUTPUT	DUAL OUTPUT
1	+V Input	+V Input
2	NC	-V Output
3	NC	Common
9	NP	NP
10	-V Output	Common
11	+V Output	+V Output
12	-V Input	-V Input
13	-V Input	-V Input
14	+V Output	+V Output
15	-V Output	Common
16	NP	NP
17	NP	NP
22	NC	Common
23	NC	-V Output
24	+V Input	+V Input

Pin Connection 3KVDC

PIN	SINGLE OUTPUT	DUAL OUTPUT
1	NP	NP
2	-V Input	-V Input
3	-V Input	-V Input
9	NC	Common
10	NC	NC
11	NC	-V Output
12	NP	NP
13	NP	NP
14	+V Output	+V Output
15	NC	NC
16	-V Output	Common
17	NP	NP
22	+V Input	+V Input
23	+V Input	+V Input
24	NP	NP