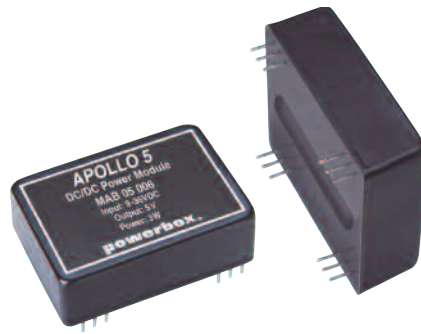


MAB 05 Series

3 WATTS - DC/DC SINGLE & MULTIPLE OUTPUT

FEATURES

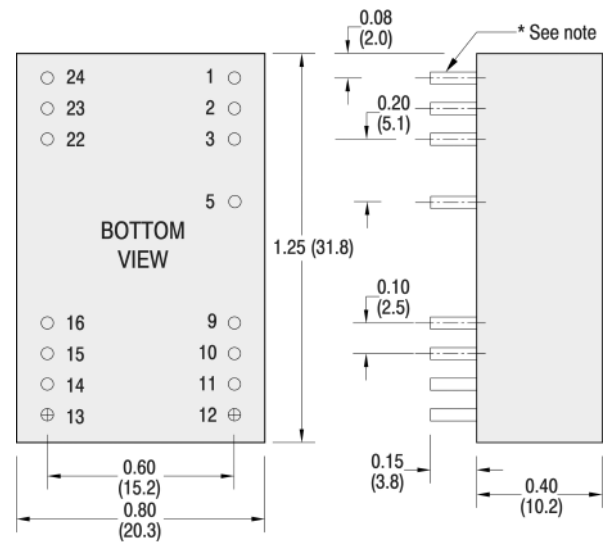
- 4:1 Input range
- 500 VDC isolation voltage
- 24-pin DIP Package
- Efficiency to 80%
- Pi filter input
- Continuous short circuit protection
- Regulated output



SPECIFICATIONS

INPUT	
Nominal voltage	12V, 24V, 48V.
Voltage range	9-36V, 18-72V.
Isolation	500VDC (3kV available - add suffix "H" on article no).
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. Multiple Output models require 25% min load to meet specification.
Setting accuracy	± 2%.
Ripple and noise	Single:max. 100 mVp-p. Dual:max. 1% p-p.
Short circuit protection	Fold-back. Approx 80% of output current at short circuit.
Temp coefficient	±0.05 %/°C.
Efficiency	70-75 %.
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	650 pF.
Case	Non-conductive black plastic.
Dimensions (H x W x L)	10.2 x 20.3 x 31.8 mm.
Weight	12.5g.

TECHNICAL ILLUSTRATION



* Pin size is 0.020" Inch (0.5mm) DIA or 0.0200x0.14 Inch
All dimensions are in Inches (mm)

MAB 05 Series

3 WATTS - DC/DC SINGLE & MULTIPLE OUTPUT

SELECTION TABLE

POWERBOX ARTICLE NUMBER	INPUT VOLTAGE VDC	OUTPUT VOLTAGE VDC	OUTPUT CURRENT MA	INPUT CURRENT NO LOAD MA	INPUT CURRENT FULL LOAD MA
MAB 05 003	9-36	3.3	600	15	127
MAB 05 006	9-36	5	600	15	165
MAB 05 009	9-36	12	250	15	165
MAB 05 012	9-36	15	200	15	165
MAB 05 015	9-36	±5	300	25	179
MAB 05 018	9-36	±12	125	25	160
MAB 05 021	9-36	±15	100	25	160
MAB 05 024	18-72	3.3	600	7.5	63
MAB 05 027	18-72	5	600	7.5	80
MAB 05 030	18-72	12	250	7.5	78
MAB 05 033	18-72	15	200	7.5	78
MAB 05 036	18-72	±5	300	12	81
MAB 05 039	18-72	±12	125	12	80
MAB 05 042	18-72	±15	100	12	80

For isolation voltage 3kV add suffix -H, 1.5kV add suffix -HM to the article number. Ex MAC 04 003H.

STANDARD PIN CONNECTION 500VDC

PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+V Input	+V Input
2	NC	-V Output
3	NC	Common
5	NP	NP
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
22	NC	Common
23	NC	-V Output
24	+V Input	+V Input

NC = No connection with pin.
NP = No pin.

PIN CONNECTION 1.5KVDC/3KVDC

PIN	SINGLE OUTPUT	DUAL OUTPUT
1	NP	NP
2	-V Input	-V Input
3	-V Input	-V Input
5	NP	NP
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
22	+V Input	+V Input
23	+V Input	+V Input
24	NP	NP