

MAA 02 Series

1.5 WATTS - DC/DC SINGLE & MULTIPLE OUTPUT

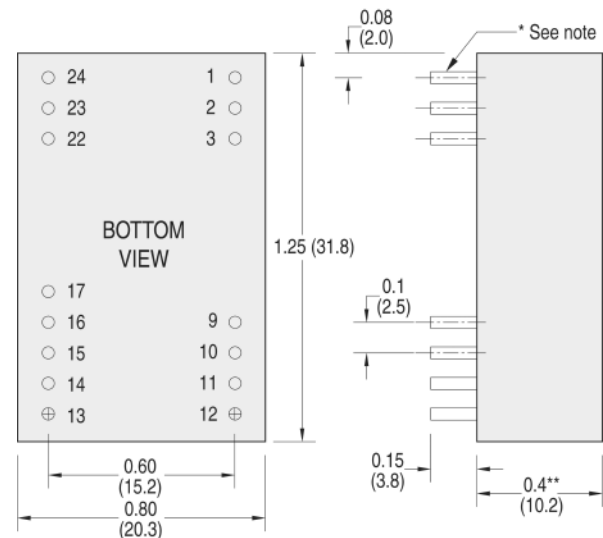
FEATURES

- Regulated output
- 500 VDC isolation voltage
- 24-pin DIP Package
- Low ripple and noise
- Efficiency 50%
- Pi input filter
- Low ripple and noise



SPECIFICATIONS

INPUT	
Nominal voltage	5V, 12V, 24V, 48V $\pm 10\%$.
Voltage range	$\pm 10\%$.
Isolation	500VDC (3kV available).
Filter	PI-type.
OUTPUT	
Power	1.5W.
Regulation	Line: $\pm 0.3\%$. Load: $\pm 0.5\%$ 10% min load required to meet specification.
Setting accuracy	$\pm 4\%$.
Ripple and noise	50mV p-p max.
Short circuit protection	Short term.
Temp coefficient	$\pm 0.02\%/^{\circ}\text{C}$.
Efficiency	50% typ.
ENVIRONMENTAL	
Ambient temperature	-25°C to $+71^{\circ}\text{C}$.
Storage temperature	-40°C to $+100^{\circ}\text{C}$.
Cooling	Convection.
GENERAL	
MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 20 kHz.
Equivalent capacitance	30 pF.
Case	Non-conductive black plastic.
Dimensions (H x W x L)	10.2 x 20.3 x 31.8 mm.
Weight	12g max.



* Pin size is 0.020" Inch (0.5mm) DIA or 0.0200x0.14 Inch
 ** 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
MAA 02 003	5	5	300	110	620
MAA 02 006	5	12	125	110	550
MAA 02 009	5	15	100	110	550
MAA 02 012	5	±12	±60	110	550
MAA 02 015	5	±15	±50	110	550
MAA 02 018	12	5	300	40	260
MAA 02 021	12	12	125	40	215
MAA 02 024	12	15	100	40	215
MAA 02 027	12	±12	±60	40	215
MAA 02 030	12	±15	±50	40	215
MAA 02 033	24	5	300	20	130
MAA 02 036	24	12	125	20	115
MAA 02 039	24	15	100	20	115
MAA 02 042	24	±12	±60	20	115
MAA 02 045	24	±15	±50	20	115
MAA 02 048	48	5	300	15	65
MAA 02 051	48	12	125	15	60
MAA 02 054	48	15	100	15	60
MAA 02 057	48	±12	±60	15	60
MAA 02 060	48	±15	±50	15	60

For isolation voltage 3kV add suffix -H, 11.5kV add suffix -HM to the article number. Ex MAA 02 003H.

PIN CONNECTION 500VDC

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

NC = No connection with pin.

PIN CONNECTION 1.5KVDC/3KVDC

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