

MAA 02 Series

1.5 WATTS SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

Features

- Regulated output
- 500 VDC isolation voltage
- 24-pin DIP Package
- Low ripple and noise



Specifications

INPUT

Nominal voltage	5V, 12V, 24V, 48V ±10 %.
Voltage range	±10 %.
Isolation	500VDC (3kV available).
Filter	PI-type.

OUTPUT

Power	1.5W.
Regulation	Line:±0.3%. Load:±0.5% 10% min load required to meet specification.

Setting accuracy	±4%.
Ripple and noise	50mV p-p max.
Short circuit protection	Short term.
Temp coefficient	±0.02 %/°C.
Efficiency	50% typ.

ENVIRONMENTAL

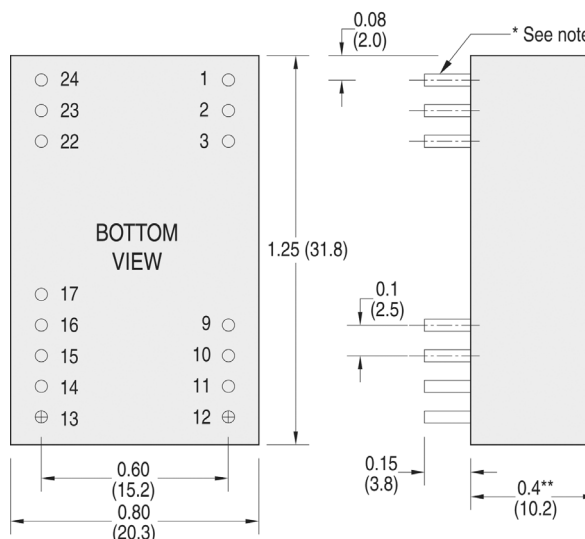
Ambient temperature	-25°C to +71°C.
Storage temperature	-40°C to +100°C.
Cooling	Convection.

GENERAL

MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 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.

STANDARDS

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



* 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 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 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