

MAC 14 Series

5 - 6 WATTS SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

Features

- 2:1 Input range
- Regulated output
- 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.

Filter PI-type

OUTPUT

Power 5W to 6W.

Line regulation: $\pm 0.5\%$.

Load regulation: Single: $\pm 0.5\%$. 10% min load is required to meet specification.
Dual: $\pm 1\%$. 25% min load is required to meet specification.

Setting accuracy $\pm 2\%$.

Ripple and noise 5 V: max. 100 mVp-p.
12/15 V: max. 1% p-p.

Short circuit protection Fold-back. Approx 80% of output current at short circuit.

Temp coefficient $\pm 0.05\%/^{\circ}\text{C}$.

Efficiency 77% to 82%.

ENVIRONMENTAL

Ambient temperature -25°C to $+71^{\circ}\text{C}$.

Storage temperature -40°C to $+100^{\circ}\text{C}$.

Cooling Convection.

OPERATING

MTBF 200 000 hours at 25°C ambient.

Switching frequency Min. 100 kHz.

Equivalent capacitance 150 pF.

STANDARDS AND APPROVALS

C-Tick AS/NZS CISPR11 Group 1 Class A

MECHANICAL

Case Non-conductive black plastic.

Dimensions (H x W x L) 10.2 x 50.8 x 50.8 mm.

Weight 51g.

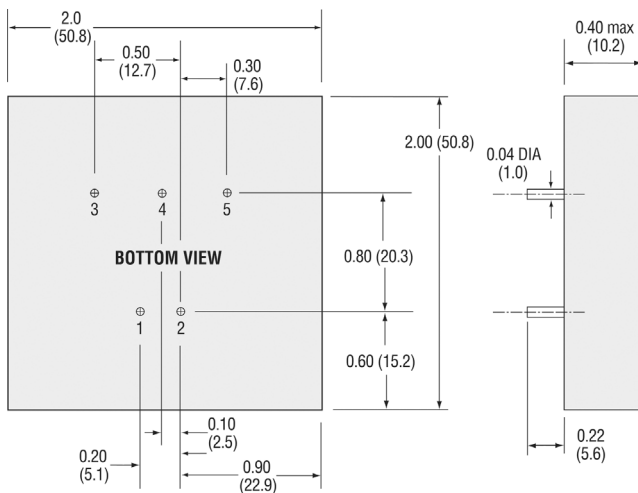
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Selection Table

POWERBOX ARTICLE NUMBER	INPUT VOLTAGE VDC	OUTPUT VOLTAGE VDC	OUTPUT CURRENT mA	INPUT CURRENT NO LOAD mA	INPUT CURRENT FULL LOAD mA
MAC 14-003	9-18	5	1000	7.5	545
MAC 14-006	9-18	12	470	7.5	585
MAC 14-009	9-18	15	400	7.5	625
MAC 14-012	9-18	±12	230	12	575
MAC 14-015	9-18	±15	190	12	590
MAC 14-018	18-36	5	1000	5	265
MAC 14-021	18-36	12	470	5	285
MAC 14-024	18-36	15	400	5	305
MAC 14-027	18-36	±12	230	7.5	285
MAC 14-030	18-36	±15	190	7.5	295
MAC 14-033	36-72	5	1000	2	133
MAC 14-036	36-72	12	470	2	145
MAC 14-039	36-72	15	400	2	154
MAC 14-042	36-72	±12	230	3	142
MAC 14-045	36-72	±15	190	3	147

Technical Illustration



Standard Pin Connection

PIN	SINGLE	DUAL
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	NP	Common
5	-V Output	-V Output

NP = No pin.