

MAC 14 Series

5-6 WATTS - DC/DC SINGLE & MULTIPLE OUTPUT

FEATURES

- 2:1 Input range
- Regulated output
- 500 VDC isolation voltage
- 24-pin DIP Package
- Efficiency to 82%
- Pi input filter
- Continuous short circuit protection



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:	±0.5%.
Load regulation:	Single: ±0.5 %. 10% min load is required to meet specification. Dual: ±1%. 25% min load is required to meet specification.
Setting accuracy	± 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	±0.05 %/°C.
Efficiency	77% to 82%.

ENVIRONMENTAL	
Ambient temperature	-25°C to +71°C.
Storage temperature	-40°C to +100°C.
Cooling	Convection.
OPERATING	
MTBF	200 000 hours at 25°C ambient.
Switching frequency	Min. 100 kHz.
Equivalent capacitance	150 pF.
MECHANICAL	
Case	Non-conductive black plastic.
Dimensions	(H x W x L) 10.2 x 50.8 x 50.8 mm.
Weight	51g.

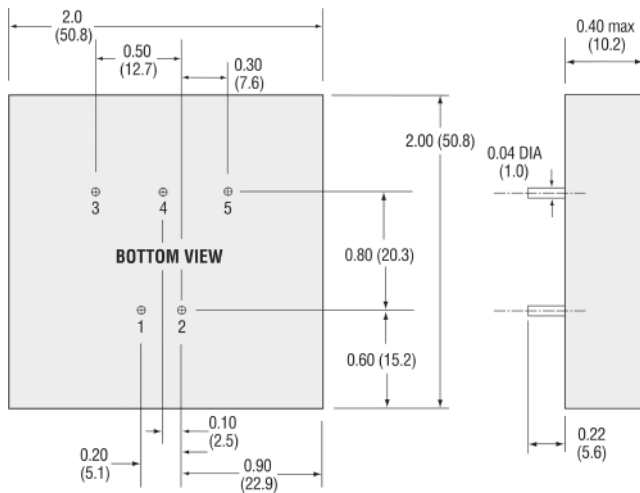
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SELECTION TABLE

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.