

MAE 13 Series

10 - 15 WATTS SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

Features

- 2:1 Input range
- Meet EN55022 class B
- Efficiency to 82 %
- 500 VDC isolation
- Six-sided shield



Specifications

INPUT

Nominal voltage	12V, 24V, 48V.
Voltage range	9-18V, 18-36V, 36-72V.
Isolation	500VDC.
Filter	PI-type

OUTPUT

Power	10W and 15W.
Regulation	Line: $\pm 0.2\%$ max Load: $\pm 1.0\%$ max
Load transient response	$<480\mu s$.
Setting accuracy	Single: $\pm 1\%$ max Dual: $\pm 1\%$ & $\pm 3\%$
Ripple and noise	Max. 75 mVp-p.
Short circuit protection	Indefinite and current limit.
Current limit	Yes.
Temp coefficient	$\pm 0.02\%$ /°C.
Efficiency	75% to 82%.

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. 200 kHz.
Equivalent capacitance	650 pF.
Case	Black coated copper with non-conductive base.

Dimensions (H x W x L)	10.2 x 50.8 x 50.8 mm.
Weight	58g.

STANDARDS

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

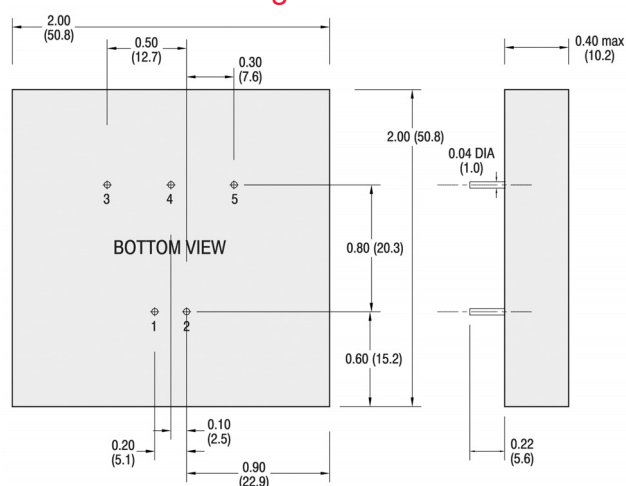
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Selection Table

POWERBOX ARTICLE NUMBER	INPUT VOLTAGE VDC	OUTPUT VOLTAGE VDC	OUTPUT CURRENT MA	INPUT CURRENT NO LOAD MA	INPUT CURRENT FULL LOAD MA
MAE 13 003	9-18	3.3	3000	30	1250
MAE 13 006	9-18	5	3000	30	1660
MAE 13 009	9-18	12	1250	30	1625
MAE 13 012	9-18	15	1000	30	1625
MAE 13 015	9-18	±5	1500	35	1620
MAE 13 018	9-18	±12	625	35	1620
MAE 13 021	9-18	±15	500	35	1620
MAE 13 024	18-36	3.3	3000	15	590
MAE 13 027	18-36	5	3000	15	812
MAE 13 030	18-36	12	1250	20	772
MAE 13 033	18-36	15	1000	20	772
MAE 13 036	18-36	±5	1500	25	780
MAE 13 039	18-36	±12	625	25	780
MAE 13 042	18-36	±15	500	25	780
MAE 13 045	36-72	3.3	3000	20	283
MAE 13 048	36-72	5	3000	10	390
MAE 13 051	36-72	12	1250	15	381
MAE 13 054	36-72	15	1000	15	381
MAE 13 057	36-72	±5	1500	20	386
MAE 13 060	36-72	±12	625	20	386
MAE 13 063	36-72	±15	500	20	386

Standard Pin Configuration



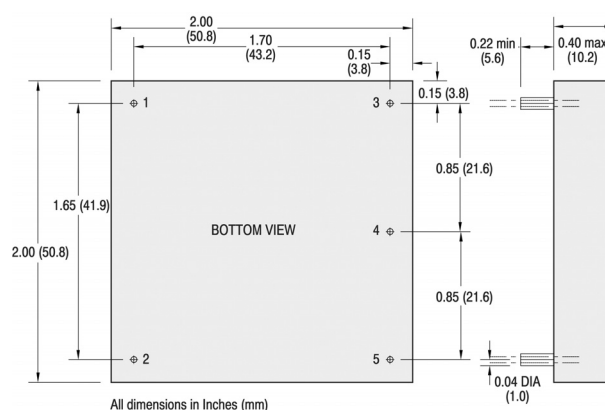
All dimensions in Inches (mm)

Standard Pin Connection

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

Alternative Pin Configuration, Suffix "S"

Add suffix "s" for this pin configuration. Ex MAC 14 003S



All dimensions in Inches (mm)

Suffix "S" Pin Connection

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