

# 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	$< 480\mu\text{s}$ .
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	$-25^{\circ}\text{C}$ to $+71^{\circ}\text{C}$ .
Storage temperature	$-40^{\circ}\text{C}$ to $+100^{\circ}\text{C}$ .
Cooling	Convection.

## GENERAL

MTTF	200 000 hours at $25^{\circ}\text{C}$ 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

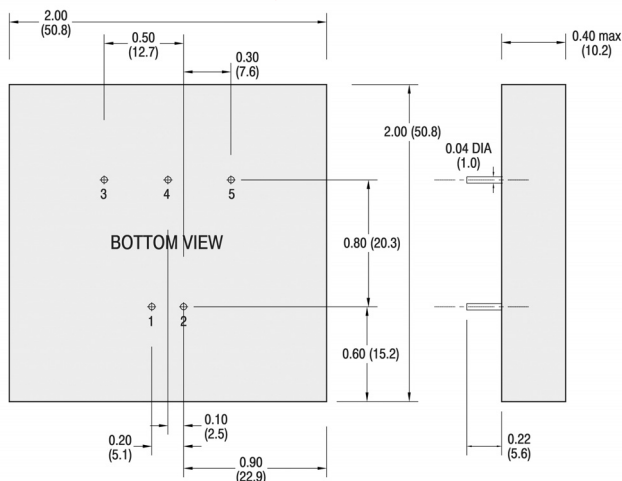
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## Selection Table

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



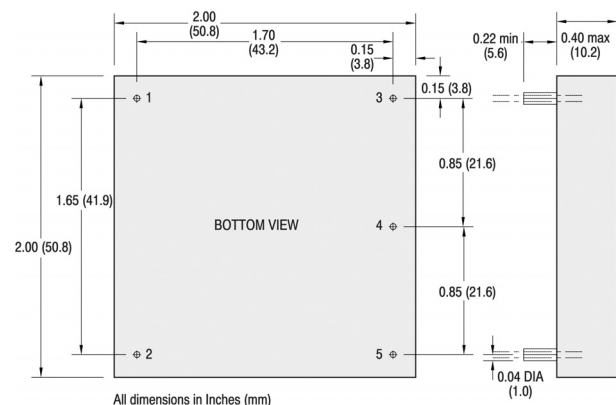
All dimensions in Inches (mm)

## 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