

# MAD 23 Series

5 - 7.5 WATTS SINGLE & DUAL OUTPUT DC/DC INDUSTRIAL

## Features

- 2:1 Input range
- Meet EN55022 class B
- 1500 VDC isolation
- Efficiency to 82 %



## Specifications

### INPUT

Voltage range	9-18V, 18-36V, 36-72V.
Isolation	1500VDC.
Filter	PI-type

### OUTPUT

Power	5W and 7.5W.
Regulation	Line: $\pm 0.5\%$ max Load: Single $\pm 0.5\%$ Dual $\pm 1.0\%$
Setting accuracy	$\pm 2\%$ .
Ripple and noise	5 V:100mVpp 12/15V 1%pp max
Short circuit protection	Fold-back. Approx 80% of output current at short circuit.
Temp coefficient	$\pm 0.05\%$ /°C.
Efficiency	70% to 82%.

### ENVIRONMENTAL

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

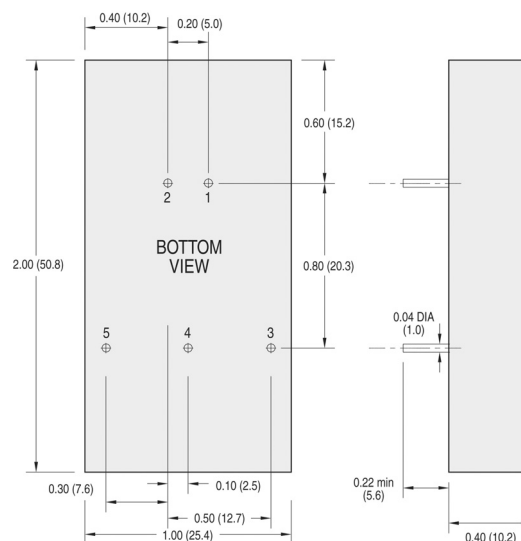
### GENERAL

MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 100 kHz.
Equivalent capacitance	650 pF.
Case	Black coated copper with non-conductive base.
Dimensions (H x W x L)	10.2 x 25.4 x 50.8 mm.
Weight	32.5g.

### STANDARDS

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

## Technical Illustration



All dimensions in Inches (mm)

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<b>POWERBOX ARTICLE NUMBER</b>	<b>INPUT VOLTAGE VDC</b>	<b>OUTPUT VOLTAGE VDC</b>	<b>OUTPUT CURRENT mA</b>	<b>INPUT CURRENT NO LOAD mA</b>	<b>INPUT CURRENT FULL LOAD mA</b>
MAD 23 003	9-18	3.3	1500	7.5	590
MAD 23 006	9-18	5	1500	7.5	820
MAD 23 009	9-18	12	625	7.5	780
MAD 23 012	9-18	15	500	7.5	780
MAD 23 015	9-18	±5	750	7.5	820
MAD 23 018	9-18	±12	310	12	775
MAD 23 021	9-18	±15	250	12	780
MAD 23 024	18-36	3.3	1500	5	295
MAD 23 027	18-36	5	1500	5	400
MAD 23 030	18-36	12	625	5	380
MAD 23 033	18-36	15	500	5	380
MAD 23 036	18-36	±5	750	7.5	400
MAD 23 039	18-36	±12	310	7.5	385
MAD 23 042	18-36	±15	250	7.5	385
MAD 23 045	36-72	3.3	1500	3	147
MAD 23 048	36-72	5	1500	2	200
MAD 23 051	36-72	12	625	2	192
MAD 23 054	36-72	15	500	2	192
MAD 23 057	36-72	±5	750	3	200
MAD 23 060	36-72	±12	310	3	192
MAD 23 063	36-72	±15	250	3	192

## Pin Connection

<b>PIN</b>	<b>FUNCTION</b>
1	+V Input
2	-V input
3	+V Output
4	Common/NP
5	-V Output

NP = No pin.