

# MAE 15 Series

10-15 WATTS - DC/DC SINGLE & MULTI OUTPUT

## FEATURES

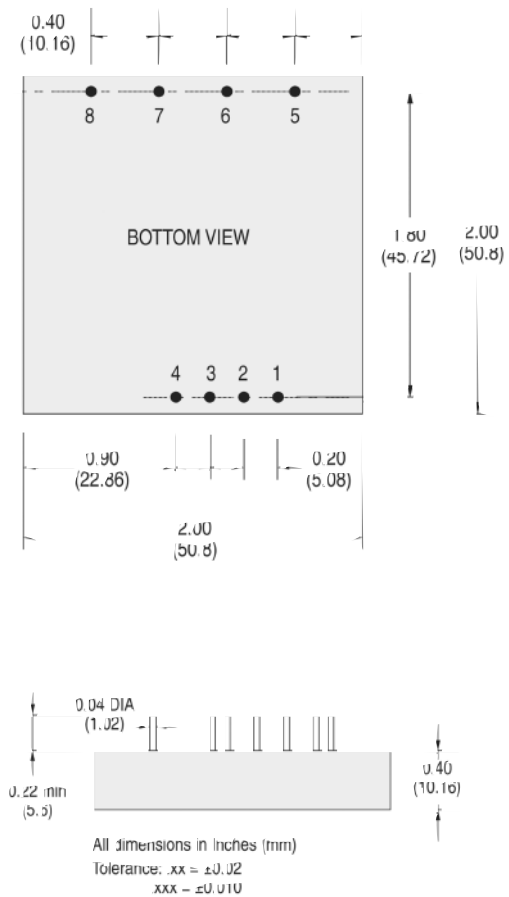
- 4:1 Input range
- Regulated output
- Isolated output
- Pi input filter
- External output trimming
- Efficiency to 82%
- 300 kHz switching frequency
- Remote ON/OFF control
- Six-sided shield metal case



## SPECIFICATIONS

INPUT	
Nominal voltage	12V, 24V, 48V.
Voltage range	9-36V, 18-72V.
Isolation	500VDC.
Filter	PI-type
OUTPUT	
Power	10W (3.3v), 15W.
Regulation	Line: 60.2% max Load: 61.0% max
Load transient response	<480µs.
Setting accuracy	Single: 63% max Dual: 62% triple: 62% 63%
Ripple and noise	Max. 75 mVp-p.
Short circuit protection	Fold-back. Approx 80% of output current at short circuit.
Temp coefficient	±0.02 %/°C.
Efficiency	76% to 82%.
ENVIRONMENTAL	
Operating temperature	-25°C to +71°C.
Storage temperature	-55°C to +105°C.
Cooling	Convection.
GENERAL	
MTTF	200 000 hours at 25°C ambient.
Switching frequency	Min. 300 kHz.
Equivalent capacitance	1400 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	59g.

## TECHNICAL ILLUSTRATION



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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 15 003	9-36	3,3	3000	15	545
MAE 15 006	9-36	5	3000	15	810
MAE 15 009	9-36	12	1250	15	780
MAE 15 012	9-36	15	1000	15	780
MAE 15 015	9-36	±5	1500	20	810
MAE 15 018	9-36	±12	625	20	780
MAE 15 021	9-36	±15	500	20	780
MAE 15 024	9-36	5/±12	1500/310	20	780
MAE 15 027	9-36	5/±15	1500/250	20	780
MAE 15 030	18-72	3.3	3000	10	270
MAE 15 033	18-72	5	3000	10	410
MAE 15 036	18-72	12	1250	10	390
MAE 15 039	18-72	15	1000	10	390
MAE 15 042	18-72	±5	1500	15	400
MAE 15 045	18-72	±12	625	15	380
MAE 15 048	18-72	±15	500	15	380
MAE 15 051	18-72	5/±12	1500/310	15	380
MAE 15 054	18-72	5/±15	1500/250	15	380

## PIN CONNECTION

PIN	SINGLE	DUAL	TRIPLE
1	Remote On/Off Control		
2	NP	NP	NP
3	-V Input	-V Input	-V Input
4	+V Input	+V Inut	+V Input
5	Trim	Trim	-Aux. Out
6	-V Output	-V Output	Common
7	+V Output	Common	+5V out
8	NP	+V Output	+Aux. Out

## REMOTE ON/OFF CONTROL

Logic compatibility	CMOS or open collector TTL
Output-On	>5.5VDC or open circuit
Output-Off	<1.8VDC
Shutdown idle current	10mA
Input resistance	100K ohms (Ein 0 to 9VDC)
Control common	Referenced to input minus

## EXTERNAL OUTPUT TRIMMING

Output may optionally be externally trimmed ( $\pm 10\%$ ) with a fixed resistor or an external trimpot as shown.

