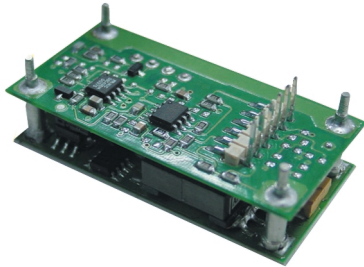


# 18 Watts APE12

Total Power: 18 Watts  
Input Voltages: 4.5 to 5.5V  
No. of Outputs: Single



## Electrical Specs

### Input

Input range 4.5 to 5.5 VDC

Efficiency 84% typical

### Output

Voltage tolerance  $\pm 1\%$  Max

Overall regulation  $\pm 2\%$  max

Noise/ripple 2% (mV P-P) Max

Transient response 50mV, 300  $\mu$ S Max (50% step load change)

Temperature Regulation  $\pm 0.03\%$  Vo/ $^{\circ}$ C

Switching frequency 290kHz

### Isolation

Non-Isolated

## Special Features

- 18 Watts Non Isolated
- Trim Function
- Remote Sense
- 1.0" x 2.0" x 0.475 Open Frame
- Output Overcurrent Protection

## Environmental

Operating Temperature (No Derating):  
0 $^{\circ}$ C to +85 $^{\circ}$ C Ambient (Derated)

Storage temperature: -40 $^{\circ}$ C to +125 $^{\circ}$ C

MTBF: 1.8 Million Hours (Belcore TR332)

AMERICAS

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Carlsbad, CA 92008  
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APE12

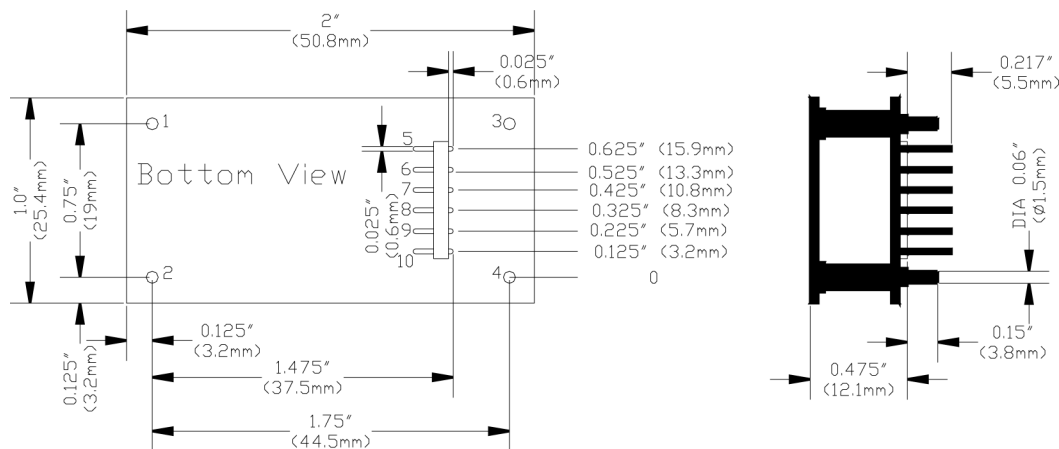
## Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
4.5-5.5 V	1.5V @ 12.0 A	84%	APE12M05

## Pin Assignments

### Single Output

1. -Vin
2. +Vin
3. -Vout
4. +Vout
5. -Vsense
6. Gnd
7. No connection
8. No connection
9. Trim
10. +Vsense



### Notes:

1. An external 4.7 uf ceramic capacitor and 1200uF electrolytic capacitor recommended to be placed from +Vin to -Vin and also from +V out to Gnd.
2. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
3. All specifications subject to change without notice.
4. Mechanical drawings are for reference only.