

25 Watts APC08

High Efficiency

PRELIMINARY



Total Power: 25 Watts
Input Voltages: 1.8 to 13 V
No. of Outputs: Single

Electrical Specs

Input

Input range 1.8-6.0VDC and 5.0-13.0VDC
 Input Surge 13V
 Efficiency 90%@3.3V

Control

Enable TTL compatible
 (positive enable option)

Output

Regulation (Line, Load, Temp) <3%
 Ripple and noise 75mV - (>2.5V Output)
 50mV - (<2.5V Output)
 Output voltage adjust range .9V to 3.6V
 Transient Response 5% max deviation with
 50% to 75% full load
 500 μ S (max) recovery

Specifications subject to change without notice.

Special Features

- Point of load (POL) applications
- High efficiency, 3.3V@90%
- -40°C to +85°C Ambient operating temperature
- Open Frame SMT
- Positive enable function
- Low output ripple and noise
- Regulation to zero load
- Programmable Output from .9V to 3.6V (External Trim Resistor)
- Fixed frequency switching (400 kHz)

Environmental

Operating temperature
 -40°C to +85°C
 Storage temperature: -55°C to +105°C
 MTBF: >1 million hours

Safety

UL, cUL 1950 Recognized
TUV EN60950 Licensed

AMERICAS

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EUROPE

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ASIA

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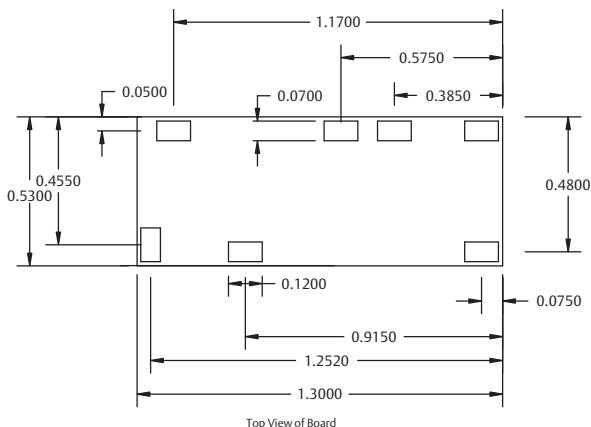
Ordering Information

| Input Voltage | Output Voltage | Efficiency Full Load | Model Number | Availability |
|---------------|----------------|----------------------|--------------|-------------------|
| 1.8V-6.0V | 0.9V @ 8A | 70% (Typ) | APC08J03 | Samples Available |
| 1.8V-6.0V | 1.2V @ 8A | 80% (Typ) | APC08K03 | Samples Available |
| 1.8V-6.0V | 1.5V @ 8A | 81% (Typ) | APC08M03 | Samples Available |
| 1.8V-6.0V | 1.8V @ 8A | 82% (Typ) | APC08Y03 | Samples Available |
| 1.8V-6.0V | 2.5V @ 8A | 86% (Typ) | APC08G03 | Samples Available |
| 1.8V-6.0V | 3.3V @ 8A | 89% (Typ) | APC08F03 | Samples Available |
| 5.0V-13.0V | 0.9V @ 8A | 70% (Typ) | APC08J08 | Samples Available |
| 5.0V-13.0V | 1.2V @ 8A | 80% (Typ) | APC08K08 | Samples Available |
| 5.0V-13.0V | 1.5V @ 8A | 81% (Typ) | APC08M08 | Samples Available |
| 5.0V-13.0V | 1.8V @ 8A | 82% (Typ) | APC08Y08 | Samples Available |
| 5.0V-13.0V | 2.5V @ 8A | 86% (Typ) | APC08G08 | Samples Available |
| 5.0V-13.0V | 3.3V @ 8A | 89% (Typ) | APC08F08 | Samples Available |

Note: Efficiency is measured at full load and Tc=25 Deg C
 “Trim, PGood, Parallel Options available on all modules
 (trim = -9)
 (Active share & P Good = MA)

Notes:

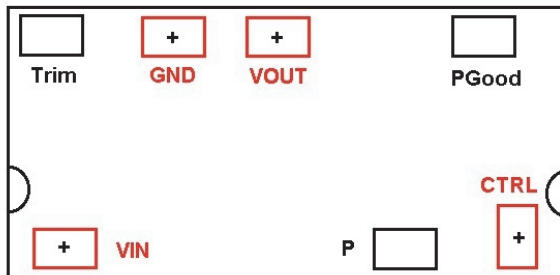
- 20 mHz bandwidth. External 10 uF tant. capacitor + 0.1 uF cer. capacitor placed from +V out to -V out.
- Meet FCC class A and ETS300-386-1 requirements for conducted noise. Consult Factory for filtering information to meet FCC class B, VDE or EIC specifications.
- All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
- All specifications subject to change without notice. Mechanical drawings are for reference only.
- Technical Reference Notes should be consulted for detailed information when available.
- Warranty: 1yr



Tolerances:
 x.xx +/- 0.02 in (x.x +/- 0.5mm)
 x.xxx +/- 0.010 in (x.xx +/- 0.25mm)

Optional Pins (Dimensions TBD)

PGood - Power Good Logic Signal
 P - Active Current Share Pin
 Trim - Trim Pin (.9 to 3.6V)



Bottom View of Board