

30 Watts

APC08 (8 Amp)



Total Power: 30W
Input Voltages: 1.8V - 13V
No. of Outputs: Single

Electrical Specs

Input

Input range	1.8-6.0VDC and 6.5-13.0VDC
Input Surge	08 Device: 14V 03 Device: 7V
Efficiency	93%@3.3V

Control

Enable	TTL compatible (positive enable option)
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Output

Regulation (Line, Load, Temp)	<3%
Ripple and noise	100mV (5V and 6V) 75mV (2.5V and 3.3V) 50mV (below 2.5V)
Output voltage adjust range	08 Device: 0.9V to 6.2V 03 Device: 0.9V 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@93%
- -40°C to +85°C Ambient operating temperature
- Open Frame SMT
- Positive enable function
- Low output ripple and noise
- Regulation to zero load
- Adjustable Output through external resistor programming
- Fixed frequency switching (400 kHz)
- EU Directive 2002/95/EC compliant for RoHS

Environmental

Operating temperature
 -40°C to +85°C
 Storage temperature: -55°C to +125°C
 Demonstrated MTBF: > 2.3 Million Hours

Safety

UL, cUL 60950 Recognized
TUV EN60950 Licensed

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APC08

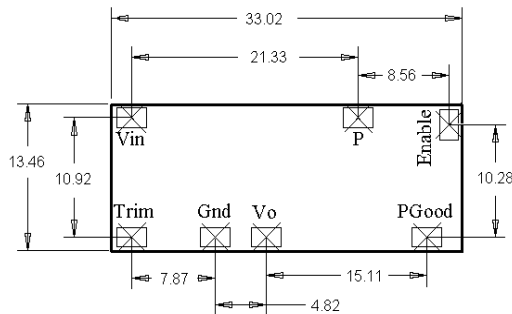
Ordering Information

Input Voltage	Output Voltage	Efficiency Full Load	Model Number
1.8V-6.0V	0.9V @ 8A	76% (Typ)*	APC08J03
1.8V-6.0V	1.2V @ 8A	81% (Typ)	APC08K03
1.8V-6.0V	1.5V @ 8A	86% (Typ)	APC08M03
2.2V-6.0V	1.8V @ 8A	88% (Typ)	APC08Y03
3.0V-6.0V	2.5V @ 8A	91% (Typ)	APC08G03
4.0V-6.0V	3.3V @ 8A	93% (Typ)	APC08F03
6.5V-13.0V	0.9V @ 8A	75% (Typ)	APC08J08
6.5V-13.0V	1.2V @ 8A	81% (Typ)	APC08K08
6.5V-13.0V	1.5V @ 8A	84% (Typ)	APC08M08
6.5V-13.0V	1.8V @ 8A	86% (Typ)	APC08Y08
6.5V-13.0V	2.5V @ 8A	90% (Typ)	APC08G08
6.5V-13.0V	3.3V @ 8A	92% (Typ)	APC08F08

* Typical Efficiency is measured at full load, mid range input and at $T_A=25^{\circ}\text{C}$

Options: suffix "-9" = Output Trim option
 suffix "-9MA" = Output Trim with Ishare and PGood options
 suffix "-J" = Jedec Style Tray Packaging (Default packaging is T&R with no "-J" suffix required)
 suffix "L" = RoHS compliant (RoHS 6) / Blank = RoHS compliant with Lead (pb) in solder exemption (RoHS5)

Mechanical Dimensions



Pin Side Down [dimensions in mm]

Optional Pins:

PGood - Power Good Logic Signal
 P - Active Current Share Pin
 Trim - Trim Pin

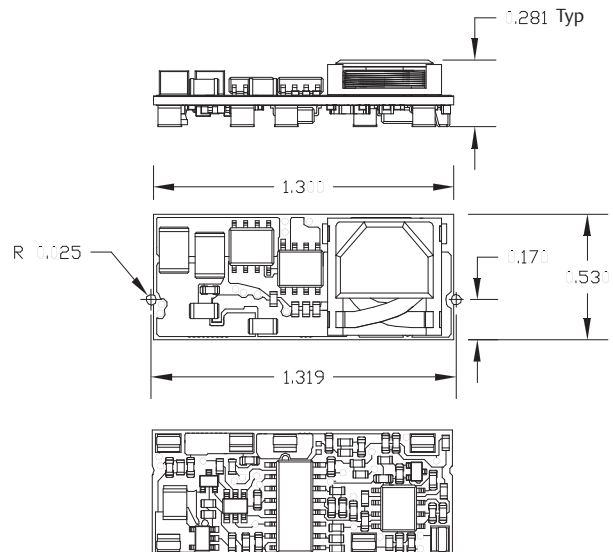
Note:

- Specifications given are typical values at nominal conditions.
- The Technical Reference Notes should be consulted for detailed information.
- Specifications subject to change without notice. Mechanical drawings are for reference only

Tolerances:

x.xx +/- 0.02 in (x.x +/- 0.5mm)

x.xxx +/- 0.010 in (x.xx +/- 0.25mm)



Astec Industry
Standard