



**THE DATASHEET OF  
APC08K03-J**



# 30 Watts

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

## APC08 (8 Amp)



### 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 $\mu$ 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

AMERICAS

5810 Van Allen Way  
 Carlsbad, CA 92008  
 Telephone: 760-930-4600  
 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park  
 Merry Hill, Dudley  
 West Midlands, DY5 1LX, UK  
 Telephone: 44 (1384) 842-211  
 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21  
 Tower1, Metroplaza  
 223, Hing Fong Road  
 Kwai Fong, New Territories  
 Hong Kong  
 Telephone: 852-2437-9662  
 Facsimile: 852-2402-4426



APC08

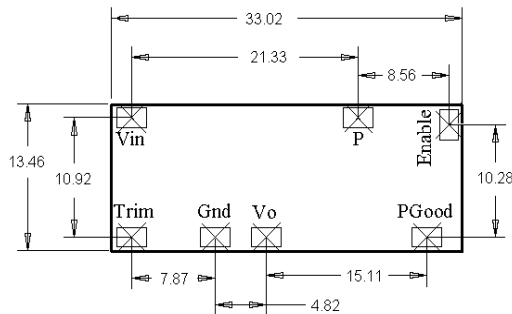
## Ordering Information

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:**

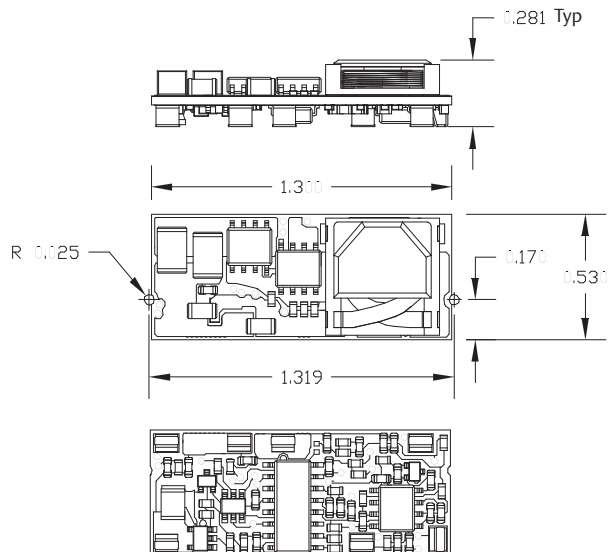
- PGood - Power Good Logic Signal
- P - Active Current Share Pin
- Trim - Trim Pin

**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

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