

30 Watts

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

APC08 (8 Amp)



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)

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

Electrical Specs

Input

Input range 1.8-6.0VDC and 5.0-13.0VDC
Input Surge 08 Device: 14V
03 Device: 7V

Efficiency 93%@3.3V

Control

Enable TTL compatible
(positive enable option)

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.

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Ordering Information

APC08

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
5.0V-13.0V	0.9V @ 8A	75% (Typ)	APC08J08
5.0V-13.0V	1.2V @ 8A	81% (Typ)	APC08K08
5.0V-13.0V	1.5V @ 8A	84% (Typ)	APC08M08
5.0V-13.0V	1.8V @ 8A	86% (Typ)	APC08Y08
5.0V-13.0V	2.5V @ 8A	90% (Typ)	APC08G08
5.0V-13.0V	3.3V @ 8A	92% (Typ)	APC08F08
7.5V-13.0V	5.0V @ 5A	94% (Typ)	APC05A08 ^{New}
8.5V-13.0V	6.0V @ 4A	95% (Typ)	APC04S08 ^{New}

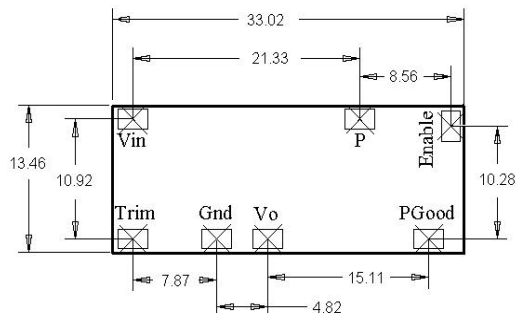
* Typical Efficiency is measured at full load, mid range input and at $T_A=25^\circ\text{C}$

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)

Mechanical Dimensions



Pin Side Down [dimensions in mm]

Optional Pins:

PGood - Power Good Logic Signal

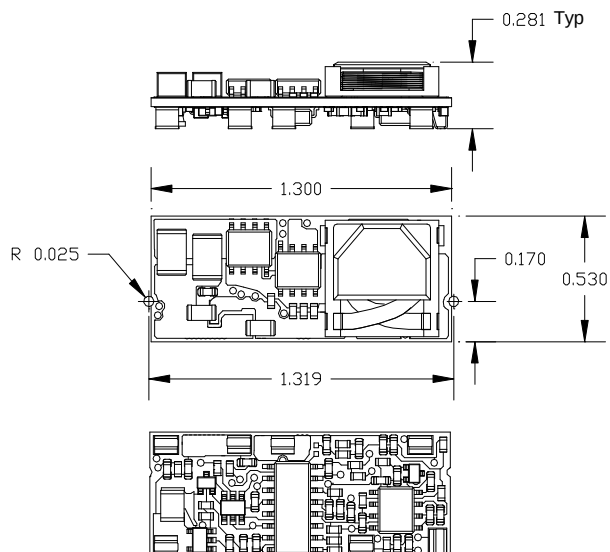
P - Active Current Share Pin

Trim - Trim Pin

Tolerances:

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

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



Astec Industry Standard

Note:

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