

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}

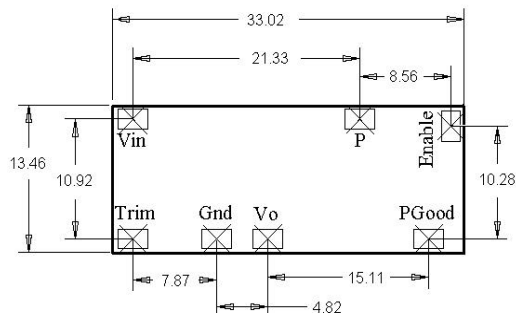
* Typical Efficiency is measured at full load, mid range input and at $T_A=25^\circ\text{C}$

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

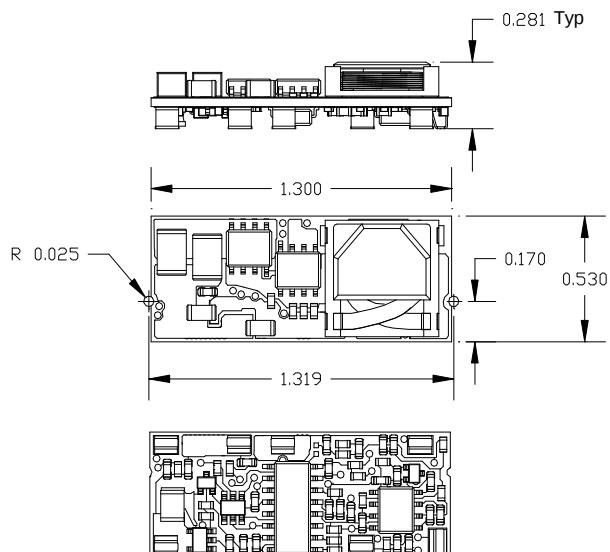
Note:

- 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