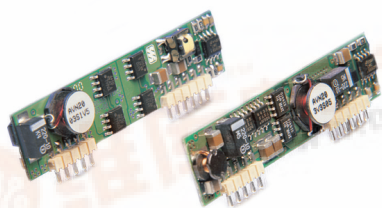


20 Watts

APA06

APA04 - Boost



Total Power: 20 Watts
Input Voltages: 3.3V, 5V
No. of Outputs: Single

Electrical Specs

Input

Input range 3.0 to 5.5V (Buck)
 3.0 to 4.0V (Boost)
Efficiency 90% (5/3.3) , 83% (1.8V)

Output

Voltage tolerance $\pm 1.0\%$
Line regulation $\pm 0.5\%$
Load regulation $\pm 0.5\%$
Noise/ripple 50mV P-P
Short circuit protection Auto-recovery
Transient response 4%Vo, 200us

Temperature Regulation $\pm 0.02 \%Vo/^{\circ}C$
Switching frequency 430kHz typ
Temperature coefficient $\pm 0.03\%Vo/^{\circ}C$

Isolation

Non Isolated

Special Features

- Excellent for POL Applications
- High Efficiency - Non Isolated
- 3.3V and 5V input,
- Standard SIP package 2.5 X .55 X .31"
- Enable and Trim Function
- Overcurrent Protection
- Sense Pins

Environmental

Operating ambient temperature: 25°C to 55°C (full load, 200LFM)
Storage temperature: -40°C to +125°C
MTBF: =7,000,000 hours (Bellcore TR332, Ta=25°C)
Weight: = 7.5 grams max

Safety

UL UL 1950 Recognized
CSA CAN22.2-950 Recognized
TUV EN60950 Certified

AMERICAS

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

EUROPE

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Merry Hill, Dudley
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ASIA

Units 2111-2116, Level 21
Tower 1, Metroplaza
223, Hing Fong Road
Fwai Fong, New Territories
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Facsimile: 852-2402-4426



APA06/04

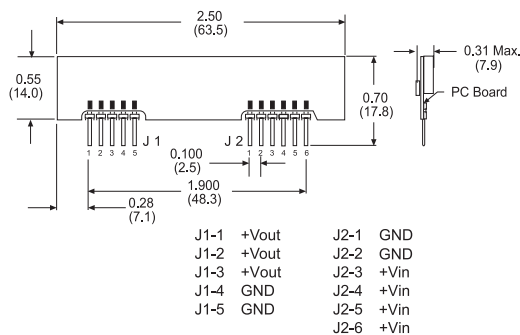
Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
Buck			
3.0-5.5 V	1.2V @ 6.0 A	80%	APA06K04
3.0-5.5 V	1.5V @ 6.0 A	81%	APA06M04
3.0-5.5 V	1.8V @ 6.0 A	83%	APA06Y04
3.0-5.5 V	2.1V @ 6.0 A	86%	APA06D04
4.5-5.5 V	2.5V @ 6.0 A	87%	APA06G05
4.5-5.5 V	3.3V @ 6.0 A	90%	APA06F05
Boost			
3.3-4.0 V	5.0V @ 4.0 A	89%	APA04A03

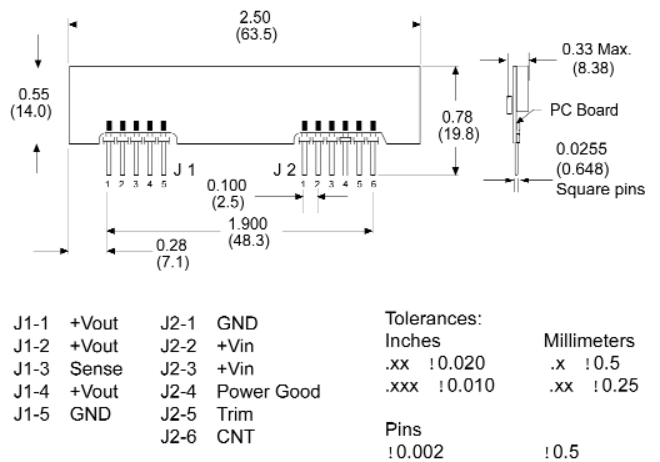
Notes:

1. Add -E to eliminate Sense and Power Good feature
2. Right Angle Pins Available

APA04 (Boost) Pinout



APA06 (Buck) Pinout



Notes:

1. Recommended Input Filter - 220uF Electrolytic Cap in parallel with 2.2uF Ceramic Cap Vin+ to GND
2. Recommended Output Filter - 2.2uF Ceramic Cap in parallel with 1000uF Electrolytic Cap (Vout+ to GND)
3. 20 MHz bandwidth. An external 0.1 uf ceramic capacitor is recommended to be placed from +V out to comm.
4. All specifications are typical at nominal line, full load, and 25°C unless otherwise noted.
5. All specifications subject to change without notice.
6. Mechanical drawings are for reference only.