

# Tech - Aero Designs

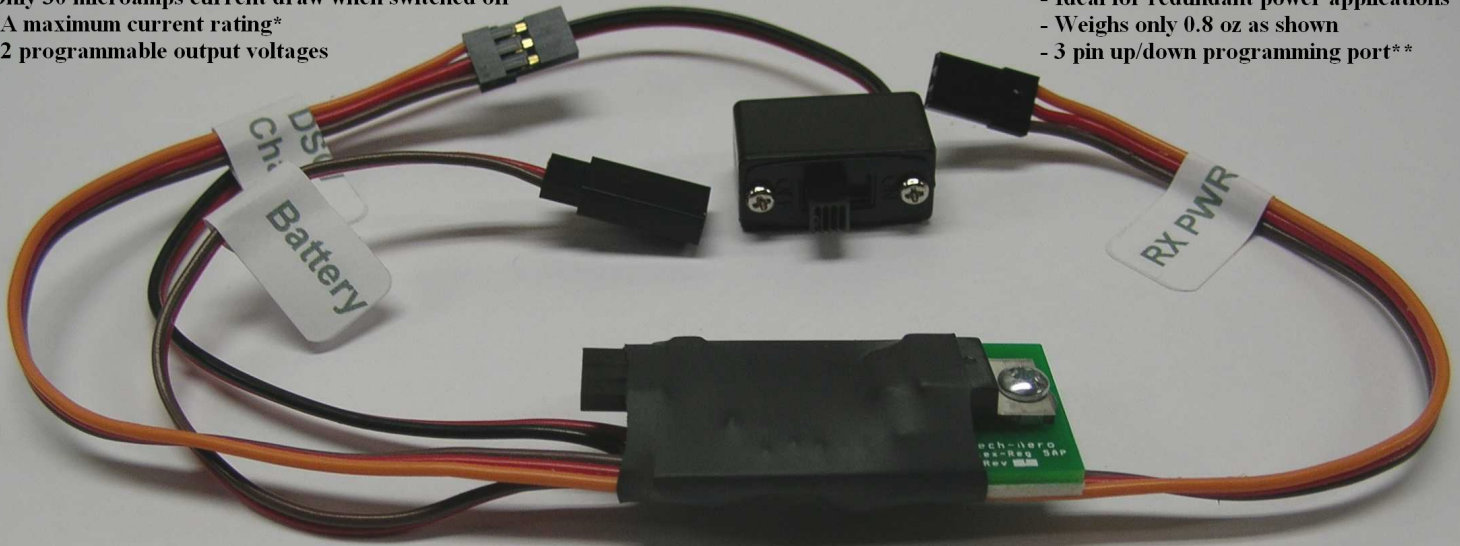
## “FlexReg” Precision Programmable Regulator and Failsafe Switch

- Failsafe Switch Design

- Only 30 microamps current draw when switched off
- 5A maximum current rating\*
- 32 programmable output voltages

- High reliability Surface Mount components

- Ideal for redundant power applications
- Weighs only 0.8 oz as shown
- 3 pin up/down programming port\*\*



- Low dropout voltage design

- For 2 cell LiPo / LiIon or 5 cell NiMh / NiCad
- Output voltage ranges from 5.75V to 6.65V
- Dual battery / dual regulator configuration support for either concurrent or failover redundancy
- Customized output voltage ranges and adjustment increments available by special order\*\*\*

The PLR5 is factory set to 6.2V, but also provides up/down programmable output storage of 32 voltage settings over a 0.9V adjustment range, giving fine control for dual or more battery/regulator configurations to assure balanced current draw among multiple battery packs. High quality, tolerance surface mount components and a fast transient response linear regulator assure accurate output to within 1% is maintained under widely varying servo load and battery voltage conditions.

The advanced regulator design is protected from voltage spikes and safely handles voltages exceeding the programmed output voltage to be present without any reverse flow to the battery taking place, making this the ideal regulator system for redundant power applications. The low dropout voltage design assures continuous operation even if servo load conditions cause the battery voltage to temporarily dip below the programmed output voltage, providing the best possible safety margin. The failsafe switch design guards against loss of power due to fatigue induced switch failures.

- \* Normal flight operation with up to 6 high torque digital servos per regulator when operational guidelines are followed per the manual.
- \*\* The Tech-Aero Designs E-Z Set programmer with integrated digital voltmeter is sold separately and is recommended for best adjustment results.
- \*\*\* As a customizable manufacturing option, adjustable voltage ranges and number of steps can be modified in various combinations. Contact Tech-Aero Designs for available options and pricing.

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