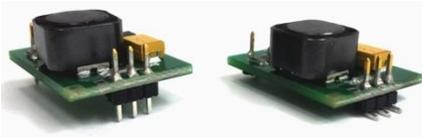


**FOR IMMEDIATE RELEASE:**

**Drop in replacement for PT78ST105  
High Efficiency, +5VDC, 2Amp, Step-Down Converter / Switching Regulator**



Waynesboro, PA – January 28, 2015 – LSI Controls, Inc., introduces its small footprint, high efficiency, 5 VDC Integrated Switching Regulator. With a 33% greater current rating (2A continuous / 3A peak), the LS78ST105 is a higher power pin compatible drop-in replacement for the now obsolete TI/Power Trends PT78ST105. The LS78ST105 follows the same pinout and footprint as the PT78ST105. The installed surface mount height of the LSI equivalent is only 0.17” taller to deliver additional current capacity. It can be configured as a thru Hole or Surface mount device.

The regulator module boasts a high-output-current PWM converter that integrates a low resistance, high side N-Channel MOSFET and offers a wide input voltage range of +5.5 to 36VDC. The LS78ST105 runs cool with conversion efficiencies up to 95%, and provides built-in current limiting, over voltage protection, and thermal shutdown safety features. Operating range is -40°C to 80°C with storage from -40°C to 125°C. The device also features a high performance voltage amplifier that provides tight voltage regulation accuracy under transient conditions, as well as an under voltage lockout feature that prevents startup until the input voltage reaches the minimum 5.5VDC supply level. It also incorporates a slow-start circuit to limit inrush currents and a voltage feed forward circuit to improve transient response.

The LS78ST105 is available for delivery with short lead-times in both thru-hole and surface mount configurations as part of LSI Control’s *AcuWatt™* product line. Pricing for either option starts at \$23.85 each with a 20 piece minimum quantity. Higher volume discounts are available.

[www.lsi-controls.com/AcuWattShop.html](http://www.lsi-controls.com/AcuWattShop.html)

Summary of Features: LS78ST105

- Pin compatible drop in replacement for the TI or Power Trends PN: PT78ST105S
- Wide Input Voltage Range: +8 to 36 VDC
- High Conversion Efficiency up to 95%

- Current Rating: 2 Amps Continuous, (3 Amp Peak) Output Current
- Full Overcurrent limiting, over voltage and thermal shutdown protection.
- Can be configured as a thru Hole Device or as a Surface Mount Device
- Operating temperature: -40°C to 80°C
- Storage temperature: -40°C to 125°C
- Footprint: 800 mil x 1100 mil (20.3 x 28 mm)
- Height: 490 mil (12.4mm)

LSI Controls, Inc. ([www.LSI-Controls.com](http://www.LSI-Controls.com)) has provided comprehensive design and manufacturing services of high density electronic systems and components for both OEM and aftermarket upgrade applications since 1979.

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