



FOR IMMEDIATE RELEASE:

**Drop-in replacements for PT78ST105, PT78ST112, or PT78ST115
High Efficiency, +5/12/15 VDC, 2Amp, Step-Down Converter / Switching
Regulators**



Waynesboro, PA – March 16, 2016 – Following our successful introduction of the LS78ST105 replacement for the 5V PT78ST105, LSI Controls, Inc. is pleased to introduce its small footprint, high efficiency, 12 and 15VDC Integrated Switching Regulators as drop-in replacements for the now obsolete TI/Power Trends PT78ST112 and PT78ST115. With a 33% greater current rating (2A continuous / 3A peak), the LS78ST1xx regulators are higher power pin compatible drop-in replacements for the corresponding PT78ST 1xx, and are available in thru-hole (Horizontal or Vertical) or surface mount configurations. The LS78ST1xx series follows the same pinout and footprint as the PT78ST1xx. The installed surface mount height of the LSI equivalent is only 0.17” taller to deliver additional current capacity.

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 +15 to 36VDC. The LS78ST1xx regulators run cool with conversion efficiencies up to 95%, and provide 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 15VDC supply level. It also incorporates a slow-start circuit to limit inrush currents and a voltage feed forward circuit to improve transient response.

The LS78ST1xx 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

Summary of Features: LS78ST1xx

- Pin compatible drop in replacement for the TI or Power Trends PN: PT78ST1xx
- Wide Input Voltage Ranges
 - LS78ST105: + 8 to 36 VDC
 - LS78ST112: +15 to 36 VDC
 - LS78ST115: +18 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) 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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