Protec GmbH
Vertrieb elektronischer Bauteile

AVIONIC COMPONENTS NEWSLETTER *NOVEMBER 2013*

TVS Diodes from SMC

SMC is launching a whole new line of TVS Diodes specially for the Avionic Market. For this Product line, Customers will get the following features :

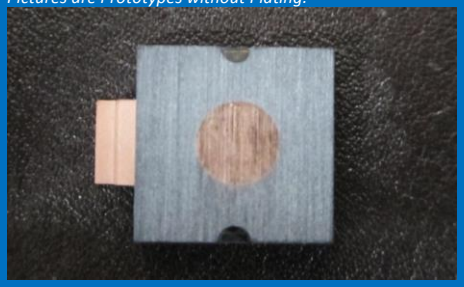
- CoC
- 100% Testing
- Full Traceability back to the Wafer lot
- SMC own Die (no third party die)
- Qual Data for each Product Family
- Up screening if required

SMC was Audited and approved by Airbus / Thales / EADS. SMC can also offer very competitive commercial pricing.

Diode Types ***(inkl. PLAD alternative Parts)*****:**

- 15kW SMD (Uni- / Bi-Directional)
- 15kW Axial (Uni- / Bi-Directional)
- 30kW SMD (Uni-Directional)
- 30kW Axial (Uni- / Bi-Directional)
- 50kW Axial (Uni- / Bi-Directional)
- 5kW SMD.. Gullwing and J-Lead

Pictures are Prototypes without Plating:



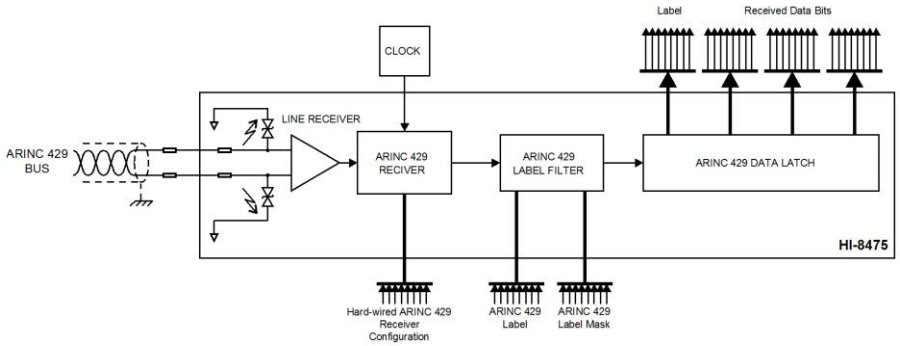
Same footprint as the Microsemi PLAD Parts

For more information on the optical transceivers or any other Product on this Newsletter, please contact Protec GmbH

HOLT's New ARINC 429 Reciever Operates without MCU

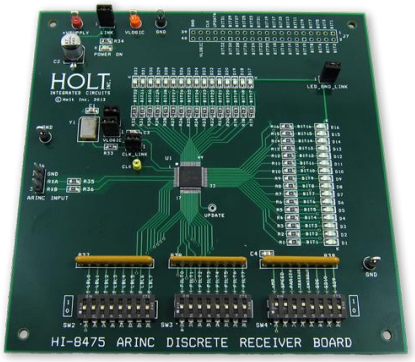
Holt Integrated Circuits announced the introduction of HI-8475, a novel ARINC 429 receiver designed specifically for use without a microprocessor. All configuration and control is programmed using logic input pins, eliminating the need for a microprocessor or software interface and the related costs for software certification. The device compliments Holt's previously released ARINC 429 transmitter, HI-8470, which receives discrete sensor data and autonomously transmits on an ARINC 429 bus without MCU intervention.

The HI-8475 receives ARINC 429 data directly from the bus and makes the data available at 32 digital output pins. ARINC 429 label filtering is defined by 16 digital input pins, defining a maskable label match to enable reception of a single label or group of labels.



The device supports both high-speed and low-speed ARINC 429 data rates, operating from a 1MHz clock source and a single 3.3V or 5.0V power supply. The receiver inputs are lightning protected to RTCA/DO-160G, Section 22 Level 3 Pin Injection Test Waveform Set A (3 & 4), Set B (3 & 5A) and Set Z (3 & 5B) using only two external resistors.

"Software development and certification is a significant time and money expense for our customers," said Anthony Murray, Director of Business Development at Holt. "These latest ARINC 429 receivers and transmitters often eliminate the MCU from customer boards entirely, providing smaller, lower cost solutions entirely free from software approvals."



For more complex situations, the 128-pin HI-8476 option adds two more maskable ARINC 429 labels, and provides both true and complementary digital outputs to simplify external logic. In addition, a default post-reset condition on the outputs is programmable before the first ARINC 429 word is received.