



Did you see us at International Conference on High Temperature Electronics (HITEC 2008) - May 13-15, 2008?

Microbridge presented the first Thermally-Adjusted Resistors for Fine-Tuning High-Temperature Electronic Circuits. At the conference, Microbridge announced discrete Rejutors (singles, duals, dividers) specifically suited for high-temperature applications, leveraging our recent findings that our thermally-adjusted polysilicon's long-term resistance drift at high temperatures is predictable and under 1%. Two different types of high-temperature Rejutors were announced with remarkably stable resistances.

Features

- Device: 30KOhm divider (bare die in ceramic DIP packages)
- Measurement temperature range: -55C to 200C
- Curve-fitted and extrapolated to 250C

High-Temperature Rejistor Type 1:

- Resistance tolerance +/- 2% across -55C to 250C
- Resistance adjustment range $\Delta R \approx 20\%$

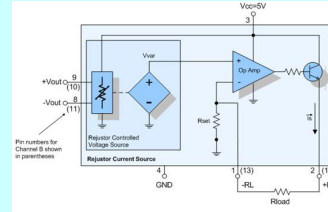
High-Temperature Rejistor Type 2:

- $\Delta R < 0.5\%$ between 175C and 225C
- Resistance adjustment range $\Delta R \approx 20\%$

- Other HT-Rejutors with different temperature characteristics and/or focus-ranges are also available. Contact Microbridge.

Sneak Peak:

A Rejistor-Based Analog Precision Current Source



We're evaluating silicon in our lab now...but here's a quick look ahead for those of you seeking improved performance, available only with Rejistor technology.

We've taken the Rejistor and embedded it as a core element in family of adjustable precision DC current sources to address applications where power requirements or resistance ranges are out of our standard Rejistor offering.

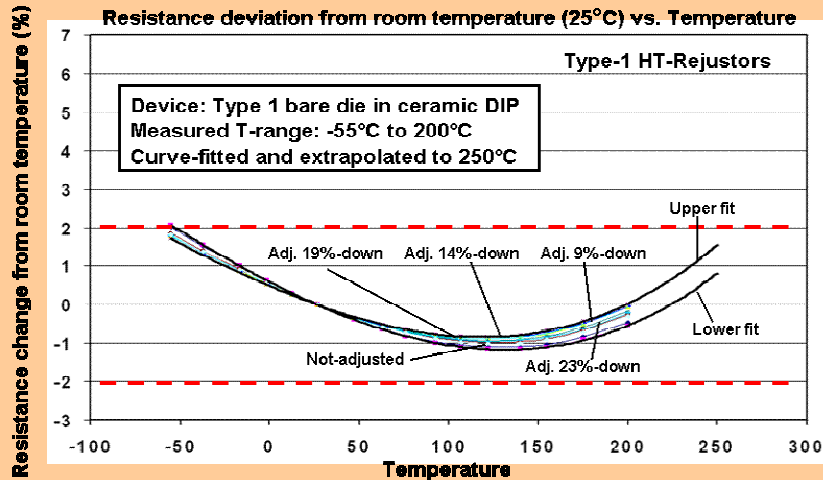
- But, we're sure you'll find many other useful applications for them as well.

These will be available as Dual adjustable current sources, fully integrated with no external components required for adjustment.

- Adjustable current range from 3 to 12mA.

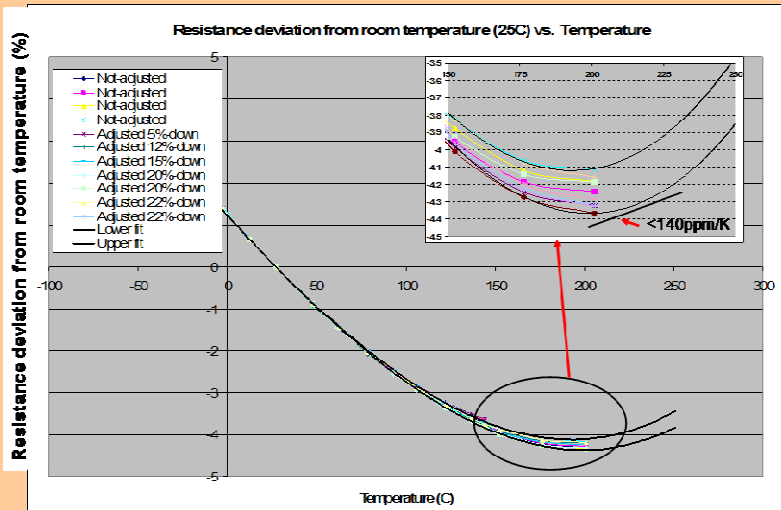
Applications

- Calibration of LED brightness in lighting arrays
- Adjustable current source replacement
- Automatic test equipment



Type-1 HT-Rejutors

feature an overall resistance tolerance (including long-term drift) of better than +/-2.5% over an extended temperature range of -55C to +250C, with a ~20% resistance adjustment range. These HT-Rejutors are designed such that, at a specific elevated temperature (e.g. 200C), the resistance returns to its room-temperature value, within +/-1.0%. Pairs of these HT-Rejutors (unadjusted and adjusted) will maintain their ratio-matching within better than 1% over the entire temperature and adjustment ranges



Special-purpose Type-2 HT-Rejutors feature a tighter

resistance tolerance of better than 0.7% over narrower temperature ranges (e.g. 150C to 200C, 175C to 225C, 200C to 250C). This is intended for high temperature applications where a fine tolerance is desired *within a specific "focus-range" of temperatures*. These HT-Rejutors are designed such that their high-temperature resistance values are a specific percentage (e.g. 4.5% +/-0.7%) below their room-temperature value. Pairs of these HT-Rejutors (unadjusted and adjusted) will maintain their ratio-matching within better than 1% over the entire -55C to +250C temperature range, throughout the 20% adjustment range, AND within better than 0.4% within the specific focus-range.

Design Challenge 2008

Did you miss the Rejutor Design Challenge last year?

You can collect \$250...

...Here's your second chance to achieve recognition and earn a little spending money. Submit your original ideas for design incorporating Microbridge Rejutors and we'll pay you \$250 for each one that gets published in 2008 in a recognized technical publication (print or online) with a circulation greater than 30,000 such as: Electronic Design, Electronic Products, EDN, Planet Analog, EETimes, Machine Design, Design News, Chips Design, eeProduct Center, Sensors Magazine, Appliance Magazine, Sensors & Transducers, There's plenty of time so put those pencils to the paper...or perhaps we should say "fingers to the keyboard".



ABOUT MICROBRIDGE

Microbridge is the leading manufacturer and licensor of next step electronic calibration products and solutions in the consumer, automotive, medical and other industries that need to improve manufacturing yields and productivity, and enter new markets. Microbridge's resistor calibration products (Rejutor) and enabling technology are the first integrated calibration and temperature compensation systems for analog electronics design and production. The firm enables manufacturers to: cut scrap up to 50%; reduce in-line manufacturing process steps; eliminate binning, work-arounds, laser trimming, hand-sorting and trim-pots; decrease calibration costs by a factor of 10 without sacrificing performance; and return millions of dollars in production savings.

Microbridge's technology enables product designers to achieve one-step calibration and passive adjustment, is adaptive and adjustable in circuit, and it allows calibration in the analog domain to improve the design of current and future products.

For more information, visit www.mbridgetech.com. Companies with product inquiries can contact Microbridge at sales@mbridgetech.com and licensing inquiries can be answered at license@mbridgetech.com

Contact us:
Phone: 1-888-735-8786
e-mail: info@mbridgetech.com

Bob Frosthalm
Vice President
Marketing, Strategic Alliances & Business Development
Microbridge Technologies

408-524-1551

bfrosthalm@mbridgetech.com