

Microbridge October 2007 eNewsletter

Design Challenge Spurs Creative Ideas

Here's a sampling of design ideas incorporating Microbridge Rejutors that have been submitted. Have you entered yet? If not, visit www.rejutorchallenge.com and see if you can win a brand new Mini Cooper.

- Very accurate PIN diode driver.
- Voltage Trimming in Battery Charging Applications
- Current Control of Ethernet Link LED
- RF power amplifier bias circuit replacement using Rejutor programmable resistors.
- Electronic Trimming of Individual Diesel Fuel Injectors Using a Rejutor
- Laser driver
- Precision current monitor
- Improving Filters and Timers
- Rejutor improves the pH Meter
- High precision three wire Resistance Temperature Detector (RTD) measurement.
- Precision DAC
- Ultimate Instrumentation Amplifier & CMRR with Rejutors
- Product Serial Number Identifier with Rejutor
- Precision Optical Transimpedance amplifier & OPAMP compensation
- Using an existing inductor as current sensor
- Rejutor-based oven temperature control for an oven-controlled crystal oscillator (OCXO)

New Application Notes

Rogowski coils are used in a variety of current measurement applications from power meters to Ethernet-over-powerline applications. Rejutors provide passive compensation for these coils, suitable for applications where no DC power is available for compensation or for manufacturers who wish to produce calibrated coils for use with uniformly produced amplifiers and integrators. This application note steps through the design and calibration challenges to enable passively compensated Rogowski coils. Check out http://www.mbridgetech.com/pdfs/MB-APP27-Rogowski_Coil-AN.pdf

New Products

The **MBK-401** is a low-cost tool for adjusting the resistance of the Rejutor. Designed for product demonstrations, this tool uses simple push-button switches to control the adjustment process. For more information, check out the datasheet at http://www.mbridgetech.com/pdfs/MBK-401_Adjust_tool_DS.pdf

The **MBW-303** Rejistor Network will be announced at the MEMS Executive Conference in November. This new device ushers in a higher level of integration for Piezo-resistive Wheatstone Bridge Sensor Compensation. Check our web site in about 10 days for all the details!

Trade Shows

Microbridge will be at [DesignCon](#) in February 2008. Drop-by booth 842 to see the latest product offerings and meet members of the Microbridge team.

Microbridge will also be at [Sensors and Test](#) in Nuremberg in May 2008. Pencil this event in your calendars. It's a great opportunity for the design community in Europe and Asia to meet EuroSemi, our new sales representatives for Europe, and learn about our new products and capabilities.

Microbridge at ISSCC 2008

The 2008 ISSCC Technical Program Committee has accepted our paper titled "Single-Chip CMOS Analog Sensor-Conditioning ICs With Integrated Electrically Adjustable Passive Resistors". Paper number 32.6 will be presented in the Session entitled MEMS & Sensors, at ISSCC in February in San Francisco. For more information on the conference, visit <http://www.isscc.org/isscc/index.htm>.

Rejistors in the News

ED Magazine released the *Resistor Trimming Design FAQ* on October 25th. This informative comparison by Don Tuite compares various resistor adjustment types including the Rejistor. <http://electronicdesign.com/Articles/Index.cfm?AD=1&ArticleID=17261>

EDN Europe

10/9

Margery Conner

MEMS-based resistor divider sets ohmic resistance and TCR

<http://www.edn-europe.com/memsbasedresistordividersetsohmicresistanceandtcr+article+1725+Europe.html>

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Noise and Bandwidth Considerations for Resistive Adjustment of Instrumentation Amplifiers

<http://www.ept.dgtlpub.com/data/flash/EPT/9000000594/p40.html>

Microbridge Announces Additional Sales Representatives

Complementing our Distribution Network with Future Electronics, we are proud to announce the addition of:

Quality Components

285H Nashua Rd.

Groton, Ma 01450

Phone: 781-640-6544

Email: sjohnson@qualitycomponents.net

Datcom Technologies

3208 Whitney Ave
Hamden, Ct 06518
Phone: 203-288-7005
Email: pcoughlin@datcom.com

ESA Technical Marketing

1017 Forest View Ct.
Naperville, IL 60563
Tel: 630-428-5662
Fax: 630-428-3209
Email: tomm@esareps.com
Website: www.esareps.com

EuroSemi Italy

Via Buozzi, 15
20090 buccinacso (MI), Italy
Phone: +39-02-4883179
Email: info@eurosemi.de
Website: www.eurosemi.de

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
email: info@mbridgetech.com

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