## Sensor Isolator NEWS ATION

| February 2012  | Electrifying News From NVE   |
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|  |  |
| In This Issue  | Love Spintronics   |
| Love Spintronics   | With Valentine's Day coming up, we at NVE want to explain why we   |
| Exhibitions  | lave spintronics.  |
| Package Dimensions   | We pioneered spintronics, which utilizes electron spin rather than<br>electron charge for better sensors and isolators. Most of our products<br>are based on spintronic giant magnetoresistance ("GMR").   |
| Ouick Links<br>Sensor Selector Guide<br>Isolator, Selector Guide<br>Onine Storg<br>Contact Us<br>Groundhog Day<br>Six more<br>weeks of<br>Six more   | Cauri relative to a given change to existance. The narge of QAIR is<br>writing the scatter, propy of existance, which is resistance, which<br>can be used by convectional electronics. The large signals can mean<br>maintain time, many presiston, and loare present<br>to instanced, and the scatter of the scatter<br>is instanced. Stances and<br>the scatter scatter of the scatter<br>scatter scatter scatter and<br>the scatter scatter scatter scatter<br>to scatter scatter scatter scatter scatter<br>to scatter scatter scatter scatter scatter<br>scatter scatter scatter scatter scatter scatter scatter<br>scatter scatter scatter scatter scatter scatter scatter scatter<br>scatter scatter scat |
| predicted by famous  | Check out our GMR overview video:  |
| groundhag<br>Punxsutawey Phil.<br>The pudy prognosticator<br>stato discussed in den's<br>new data acquisition<br>technology.<br>"I was ground down<br>looking for my shadow,"<br>explained Phil na ai an<br>toblind low-jitter sensor<br>system using NVE parts.<br>It eliminated ground<br>loops even though I live<br>in a ground loop." |  |
| Presidents Day Quotes  |  |
| "Ground loops, when  |  |
| they begin to take root,<br>are plants of rapid<br>growth."<br>—George Washington  | So this Valentine's Day, fall in love with spintronics.  |
| "Put your isolators in   | <u>More on GMR and Spintronics</u>   |
| the right place, then<br>stand firm."<br>—Abraham Lincoln  | Upcoming Exhibitions   |
| "Defense of isolation is<br>no vice."<br>—George H. W. Bush  | Competition 6 Conference<br>List award world 2012<br>List Components is<br>exhibiting at the Embedded<br>World exhibition, February 28 to March 1 in Nuremberg, Germany.   |
| "NVE has great<br>sensorization and<br>isolatorism."<br>—George W. Bush  | IsoLoop Isolated Bus Transonivers are popular for embedded applications.   |
|  | Application Corner   |
| Background Music   |  |
| Background Music<br>"It's a Magnet"<br>and<br>"Electricity"  | Package Dimension FAQs<br>Q. What are the package tolerances of NVE parts?   |
| background music<br>playfist.  | A. NVE takes great care to ensure its parts will work in any board<br>layout within reason (and some not within reason).   |
| playlist.<br>The theme is because<br>NVE's use of spintronics  | All of our parts fully conform to applicable JEDEC standards, plus<br>they meet rigorous standards for pin planarity, pitch, and offset to<br>ensure every pin solders correctly.  |
| is a unique combination<br>of magnetics and<br>electronics, providing<br>unprecedented<br>miniaturization, precision,  | Q. What are "BASIC dimensions"?<br>All NVE parts meet or exceed applicable JEDEC standards. The<br>package below fully complex with JEDEC MS-012, for example:<br>Denances is induc (ms)   |
| speed, and ruggedness.   |  |
| styrics-   | 0.054 (137)<br>0.069 (1.75)  |

060 (1.5) OTE: Pir dir Jr

E datasheets general ted in the drawing, pin erance do not accumu mance for each pin is

ant to nt pad

eadframes and has quality sys wer see a bent pin. Parts are d id offset.

Q. What is the recommended solder-pad layout? NVE takes care to ensure its parts will work in your board layout. The following diagram shows a typical SOIC-8 pad layout, and standard library layouts are fine:

