

# NEWS RELEASE



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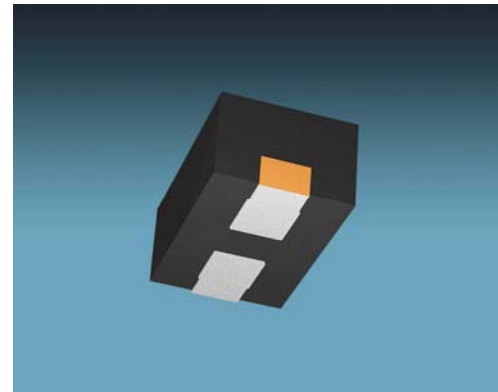
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## **PLASTIC SMT SCHOTTKY MIXER/DETECTOR DIODES**

Sunnyvale, CA — Aeroflex / Metelics has announced the release of a family of surface mount GaAs and Silicon Schottky Mixer/Detector Diodes for high volume pick and place applications. These control devices are delivered in a plastic SMT package with standard 45 mils W X 75 mils L X 31 mils H dimensions. Their performance and mechanicals allow them to be easily dropped into existing designs.



The Aeroflex / Metelics SMGS family of detectors and mixers includes GaAs model SMGS11 which is ideal for temperature compensation applications. This device operates at  $>26.5$  GHz and features a min breakdown voltage of 5V, a typical capacitance of 0.10 pF and a max resistance of 7 ohms. The family also features GaAs model SMG21, which is an anti-parallel pair ideal for use in doubler and harmonic mixer designs. SMG21 also operates at  $>26.5$  GHz and offers a typical capacitance of 0.15 pF, a forward voltage min/max of 620/760 mV, and a max resistance of 7 ohms.

Silicon zero bias Schottky diodes SMS201 and SMS202 are designed for broadband detector applications as they require no DC bias and offer excellent sensitivity of -54 dBm typical. Model SMS201 operates at  $>26.5$  GHz and offers a min breakdown voltage of 1V, typical capacitance of 0.08 pF, a forward voltage min/max of 60/120 mV, and a max resistance of 80 ohms. Model SMS202 operates at  $<18$  GHz and offers a min breakdown voltage of 1V, typical capacitance of 0.18 pF, a forward voltage min/max of 60/120 mV, and a max resistance of 80 ohms.

These mixer/detector diodes are ideal when low cost plastic packaging is a key driver in applications such as test instrumentation, sensors, and wireless infrastructures such as point-to-point radio and FWA.

For more information including data sheets, price quotes and samples visit [www.aeroflex.com/metelics](http://www.aeroflex.com/metelics)

### **About Aeroflex / Metelics**

Aeroflex / Metelics is a designer and manufacturer of a comprehensive line of RF/Microwave semiconductor devices and components such as silicon (Si) and gallium arsenide (GaAs) diodes, germanium tunnel diodes, HBT amplifiers, resistors, inductors, capacitors, switches, and integrated devices. Products are available in wafer, chip and packaged form and fit a variety of commercial, military, and high reliability (hi-rel) communications, electronic warfare (EW) and radar applications. Information on JAN-qualified TC zeners and hard glass switching diodes, current regulators, transistors and SCRs can be found at [www.aeroflex.com/metelics-HiRelComponents](http://www.aeroflex.com/metelics-HiRelComponents). Additional information concerning Aeroflex / Metelics can be found on the company's website: [www.aeroflex.com/metelics](http://www.aeroflex.com/metelics)

### **About Aeroflex**

Aeroflex Incorporated is a global provider of high technology solutions to the aerospace, defense and broadband communications markets. The Company's diverse technologies allow it to design, develop, manufacture and market a broad range of test, measurement and microelectronic products. Additional information concerning Aeroflex Incorporated can be found on the Company's website: [www.aeroflex.com](http://www.aeroflex.com).

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