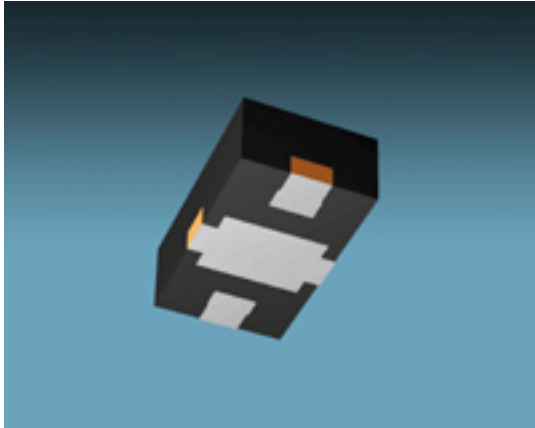


# Schottky Mixer-Detector Diodes Offer Easy Drop-in



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 mm x 75 mm x31 mm dimensions. Their performance and mechanicals allow them to be easily dropped into existing designs. The SMGS family of detectors and mixers includes GaAs model SMGS11 which is appropriate for temperature compensation applications. This device operates at >26.5 GHz and features a min breakdown voltage of 5 V, 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 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  $\Omega$ . Silicon zero bias Schottky diodes SMS201 and SMS202 are designed for broadband detector applications as they require no DC bias and offer 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  $\Omega$ . 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  $\Omega$ . These mixer/detector diodes are appropriate 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.

### Aeroflex/Metelics

516-694-6700, [www.aeroflex.com](http://www.aeroflex.com) [1]

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