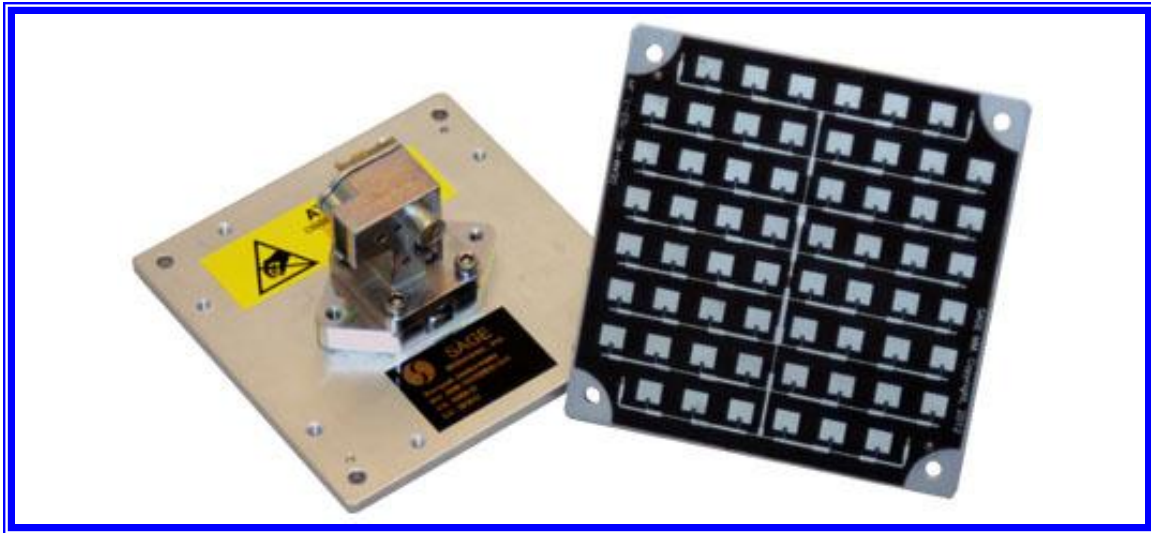


K Band Speed Sensors



Model SSS-24307-20M-S1 and SSS-24307-20M-D1 speed sensor heads are based on Doppler principle. While Model SSS-24307-20M-S1 is designed and manufactured for moving target speed measurement, Model SSS-24307-20M-D1 is for both speed and direction detection measurement. The operation frequency and output power of the models are at 24.125 GHz and 7 dBm, respectively. The antenna implemented is a low loss; high performance microstrip patch array delivers $12^{\circ} \times 12^{\circ}$ half power beamwidth, 20 dBi nominal gain and -20 dB side lobe levels. The sensor modules are configured with a T/R diplexer, a single or I/Q receiver and a transmitter/receiver oscillator in an integrated package. Single DC power supply at +5.0 Vdc/200 mA is required. The sensor measures 2.95" (W) x 2.95" (H) x 1.40" (D) and weighs 3.0 Oz. Many other sensors with different antenna beamwidth, antenna type and output power level are also available in different model numbers.

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