



# Epsilon Lambda Electronics

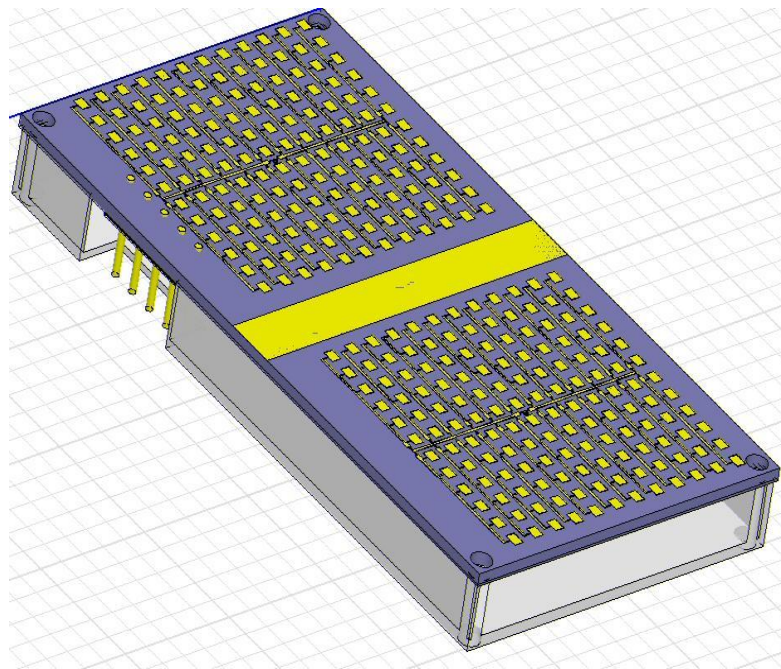
Since 1974

**Celebrating 35 Years as the Millimeter Wave Industry  
Technology Leader**

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## **DISMOUNT SOLDIER NAVIGATION SENSOR**

*Miniature, Integrated, Doppler  
Radar Speed Sensor at 94 GHz*

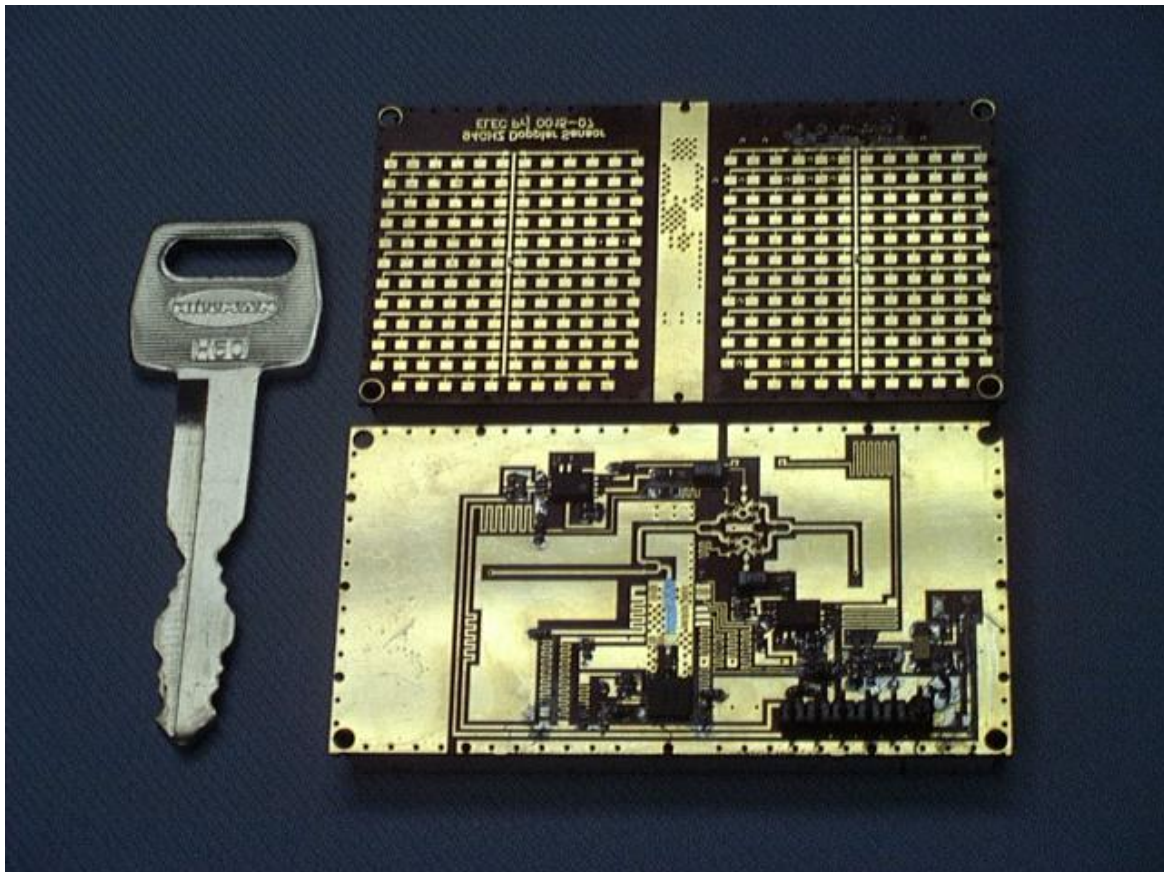


- CW Doppler radar – Millimeter Wavelength (High Doppler Frequency)
- High Gain Separate Tx and Rx Antennas for High Isolation
- Low Phase Noise Receiver
- Operable from Battery Supply Voltages
- Compact Size, Rugged Construction

This Doppler radar sensor is suitable for object speed measurement. It can be incorporated into navigation systems for dismounted humans or for vehicles to accurately track movement when GPS navigation is not available.

# Model ELGM91-1D Specifications

Transmitter Power	+5 dBm
Center Frequency	94.0 $\pm$ 0.5 GHz
Temperature Range	-20 to +85 degree C
Antenna Gain	18 dB
Azimuth Beam Angle	8 degree
Elevation Beam Angle	8 degree
Antenna Sidelobe	<13 dB
Polarization	Linear
Operating Range	2-20 meters (depends on object RCS)
IF Outputs	I&Q dual outputs
DC Power (Electronics)	5V/600ma
Size	2.7x1.45x0.27 inches
Weight	19.5 Grams
I/O Connection	Two mm receptacle



Please contact Epsilon Lambda Electronics sales department for further information regarding this innovative radar sensor product.

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