Epsilon Lambda Electronics

Since 1974

Celebrating 35 Years as the Millimeter Wave Industry Technology Leader

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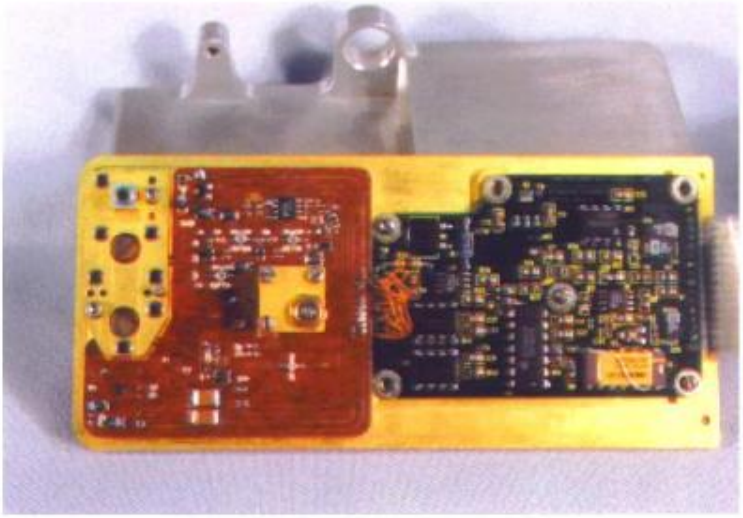
Epsilon Lambda Electronics

Introduces

Two Dimensional Forward Looking Automotive Obstacle Detection Radar Sensor in W-BAND



- **FM-CW Ranging Radar – Millimeter Wavelength (High Resolution)**
- **High Gain Antenna with range up to 150 meter (typical car)**
- **Azimuth and Range Object Location Determination**
- **Azimuth Field-of-View Selected by Antenna Specification**
- **Low Phase Noise Transceiver**
- **Operable from Battery Supply Voltages**
- **Compact Size, Rugged Construction**
- **Code Embedded to DSP Circuit Card**
- **F.O.V. Object Maps Displayed on Laptop for Sensor Testing**

This 2D radar sensor is suitable for highway vehicles, off road vehicles, ground robots, etc. Obstacle data reported includes range, azimuth angle, relative velocity, and signal return amplitude.

Epsilon Lambda Electronics
396 Fenton Lane Suite 601 *West Chicago IL 60185 * 630 239 7118 * 630 293 5809 fax

Model ELFM72-1A Specifications

Transmitter Power	**+13 dBm**
Center Frequency	**76.5 ± 0.5 GHz**
Number of Obstacles in Image Map	**4 in beam width**
Temperature Range	**-20 to +85 degree C**
Antenna Gain	**>27 dB**
Azimuth FOV	**Ten degree or Customer Selectable**
Azimuth Beam Angle	**10 degree**
Azimuth Angle Resolution	**1.0 degree**
Elevation Beam Angle	**4.0 degree**
Polarization	**Linear**
Operating Range	**150 meters (Typical Compact Car)**
Obstacle List Update Rate	**100 ms**
Range Resolution	**0.5 meter**
DC Power (Electronics)	**9-16 V / max 1.5 A**
Weight	**2.5 Kg**
DSP Board	**Supplied**
I/O Connection	**USB to Laptop computer**

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

bobk@epsilonlambda.com

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