

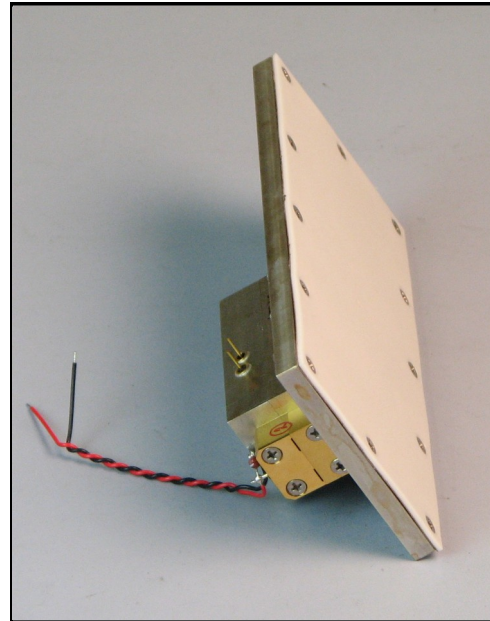
## Features

- Medium sensitivity
- Low 1/f noise
- Linear polarized waveform
- Low harmonic and spurious emission
- Volume production
- Temperature and vibration qualified

## Applications

- Automotive radar
- Directional sensor
- Traffic enforcement radar
- Long range motion detection

## Sensor



## Electrical Specifications: $T_c = 25 \pm 5^\circ\text{C}$ (Room Ambient)

Parameter	Min	Typ	Max	Units
RF Frequency	34.7			GHz
Antenna: type and beam	Planar; 5 degree horizontal beam, 15 degree vertical beam			
Antenna: gain and polarization	23 dB gain; linear-horizontal polarization			
Side lobe suppression	17			dB
Output power			5	mW
Receiver conversion loss		10		dB
IF bandwidth	DC to 100			MHz
V/I	5.0 to 5.5 Vdc/350 mA (Typ)			
Temperature	-30 to +60			$^\circ\text{C}$

## Capability

- Up to 1300 m sensing distance
- Speed & direction detection