

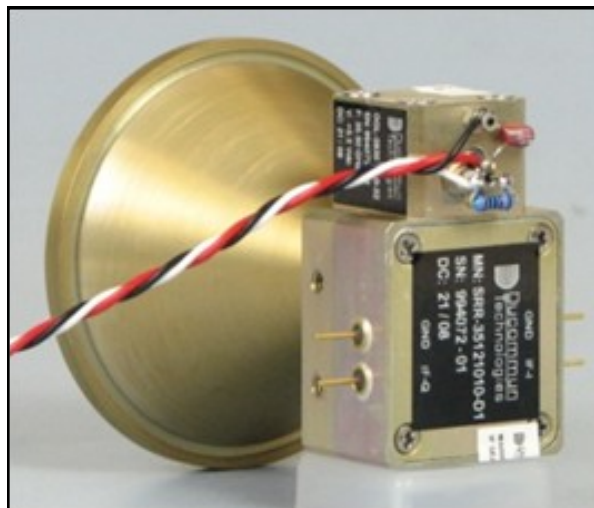
Features

- High sensitivity
- Low 1/f noise
- Circular polarized waveform
- Low harmonic and spurious emission
- Compact size
- Low cost and volume production
- Temperature and vibration qualified

Applications

- Automotive radar
- Ranging radar
- Traffic enforcement radar
- Collision prevention radar
- Train alarm system

Sensor



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

Parameter	Min	Typ	Max	Units
RF Frequency	35.5			GHz
Varactor tuning range	100			MHz
Transmitter output power	10			dBm
Receiver conversion loss		10		dB
IF bandwidth	DC to 100 MHz			
Antenna 3 dB beamwidth	12			degrees
Antenna sidelobe level			-20	dB
Polarization	Right hand circular			
DC bias	+5.5 V/350 mA (Typ)			
Operation Temperature	-40 to +85			$^\circ\text{C}$

Capability

- Up to 2 km sensing distance
- Speed & direction & range detection