

SRF-35121010-D1



Ka Band Doppler Sensor Head **RF Products Group**
Dual channels

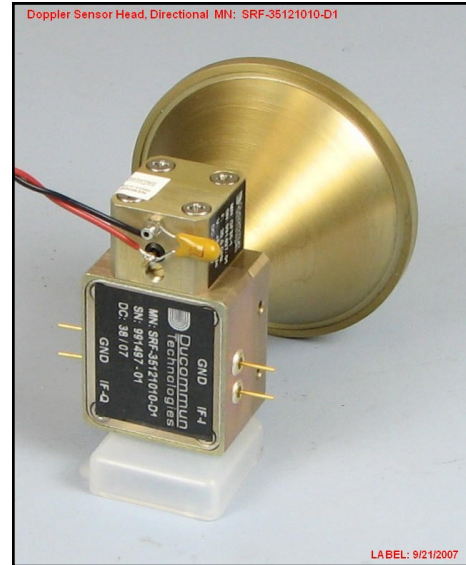
Features

- 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
- 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		35.5		GHz
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		
Operation temperature		-40 to +85		$^\circ\text{C}$

Capability

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