

Ka Band Doppler Sensor Head Single channel

RF Products Group

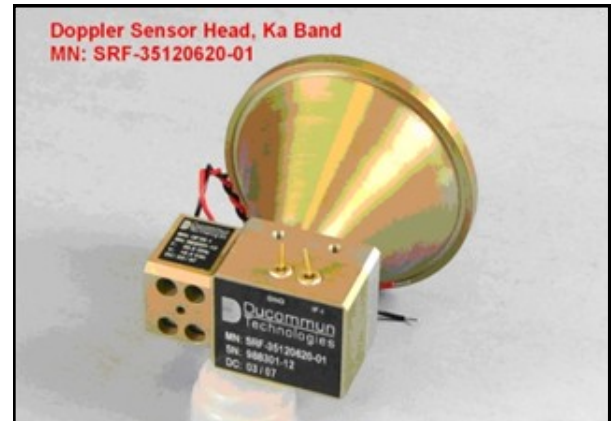
Features

- 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		6		dB
IF bandwidth	DC to 100			MHz
Antenna 3 dB beamwidth	12 degrees			
Antenna side lobe 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 detection only