SRR-35120610-01

Ka Band Ranging Sensor Head Single channel

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

Electrical Specifications: T_c = 25 ± 5°C (Room Ambient)

Parameter	Min	Тур	Max	Units	
RF Frequency		35.5			
Varactor tuning range	100			MHz	
Transmitter output power	10			dBm	
Receiver conversion loss		6		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			

Capability

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



RF Products Group

Sensor

