

# SRR-24120910-M2



**Doppler and Ranging Sensor Head  
K Band MMIC**

**RF Products Group**

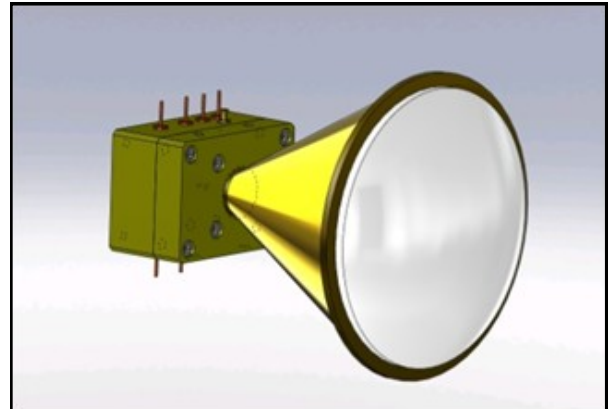
## Features

- Medium sensitivity
- Low DC power dissipation
- Ultra broad and linear electrical tuning
- Circular polarized waveform
- Low harmonic and spurious emission
- Compact size
- Low cost and volume production

## Applications

- Automotive radar
- Ranging radar
- Traffic radar w/lane discrimination
- Collision prevention radar
- Train alarm system
- Vital monitoring and rescuing

## Sensor



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

Parameter	Min	Typ	Max	Units
RF Frequency	24.15			GHz
Electrical tuning range	2GHz/0-13V			
Transmitter output power	10			dBm
Receiver conversion loss		9		dB
IF bandwidth	DC to 100			MHz
Antenna 3 dB beamwidth	Per request			
Polarization	Right hand circular			
Supply voltage		+5		V
Supply current		120		mA
Tuning voltage		0 to 13		V
Operation Temperature		-40 to +85		$^\circ\text{C}$

## Capability

- Up to 1 km sensing distance
- Speed & direction & range detection