# SMF-24051205-P1



### **Motion Detection Doppler Sensor Head** 5 degrees Patch Array Antenna

## **RF Products Group**

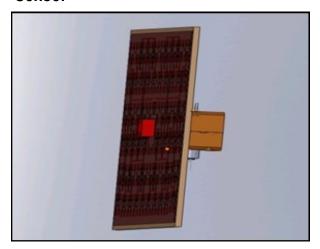
#### **Features**

- Basic sensitivity
- High reliability
- Low harmonic emission
- Compact
- · Low cost and volume production

### **Applications**

- Speed measurement
- Traffic signal actuator
- Automatic illumination system
- Automatic door opener
- Intrusion alarm
- Contactless vibration measurement

#### Sensor



Electrical Specifications: T<sub>c</sub> = 25 ± 5°C (Room Ambient)

Parameter	Min	Тур	Max	Units
RF Frequency	24.15			GHz
Transmitter Output Power	+5			dBm
Receiver conversion loss		12		dB
IF bandwidth	DC to 100			MHz
Antenna:	Planar: 3dB beamwidth = 5 x 7 degrees			es
Antenna side lob level			-17	dB
DC bias		5.5 V / 200 mA		
Operation temperature	-30 to +60		°C	
Frequency drifting			<u>+</u> 40	MHz
Speed measuring error			<u>+</u> 0.2	km/h
Measurable distance	200			m
Response time			25	ms

# Capability

- Up to 500 m sensing distance
- Speed detection only