

# SMD-240512CW-01



**K Band Motion Detector Module  
Single channel**

**RF Products Group**

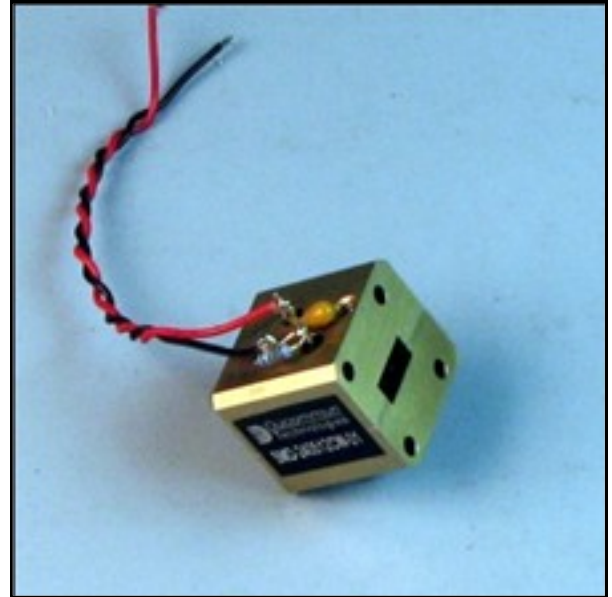
## Features

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

Parameter	Min	Typ	Max	Units
RF Frequency	24.15			GHz
Transmitter output power	5			dBm
Receiver conversion loss		12		dB
IF bandwidth	DC to 100			MHz
Bias	4.5 to 5.5 V / 200 mA (Typ)			
Operation temperature	-30 to +60			$^\circ\text{C}$
Frequency drifting			$\pm 40$	MHz
Speed measuring error			$\pm 0.2$	km/h
Measurable distance	200			m
Response time			25	ms

## Capability

- Speed detection only