Automotive mmWave radar

79GHz Door-Opening Obstacle Avoidance Radar

Automotive 79GHz millimeter-wave radar for door-opening obstacle detection, with a 150° by 150° field of view, 0.04–4m range and ±0.04m range accuracy.



Range	Accuracy
0.04–4m	±0.04m
Frequency	**Supply voltage**
77GHz ~ 81GHz	9V ~ 16V DC

Features

- 77GHz ~ 81GHz band, FMCW, 4GHz sweep bandwidth
- Lateral and longitudinal distance, velocity and height
- Velocity range -12.2m/s ~ +12.2m/s
- Data cycle 50ms
- Operates on 9V ~ 16V DC, 2W or less

Applications

Door-opening obstacle avoidance, Automatic door control, Automated parking systems

Specifications

Operating frequency band	77GHz ~ 81GHz
Modulation waveform	FMCW
Sweep bandwidth	4GHz
Data cycle	50ms
Range	0.04–4m
Velocity range	-12.2m/s ~ +12.2m/s
Horizontal field of view	-75° ~ +75°
Vertical (pitch) field of view	-75° ~ +75°
Range accuracy	±0.04m
Velocity accuracy	±0.08m/s
Angle accuracy	±0.5°@0°
Range resolution	0.043m
Velocity resolution	0.19m/s

Angle resolution	25°
Operating voltage	9V ~ 16V DC
Operating current	≤200mA
Power consumption	≤2W
Weight	22G

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

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Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.