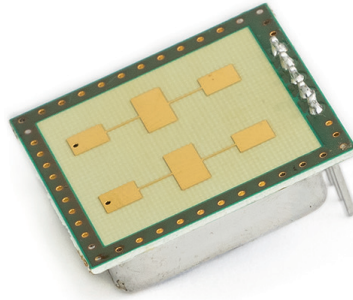


K-LC5

radar transceiver



Features

- 24 GHz short range transceiver
- Beam aperture 80°/34°
- Pin-compatible with K-LC2
- 3.3V and 5V Version available
- Highly linear VCO with 260 MHz tuning range
- High sensitive LNA receiver
- I/Q IF outputs
- Compact size: 25 mm × 25 mm × 6 mm
- Low frequency drift over temperature

Applications

- Security systems
- Directional object speed measurement systems
- Directional movement detectors
- Ranging of objects using FSK or FMCW
- Industrial sensors
- Home automation

Description

K-LC5 is an extended range dual channel Doppler Radar module with an asymmetrical beam for short range sensors. Dual IF I and Q allow movement direction detection and high performance signal processing. The FM input allows FSK or FMCW ranging applications.

An extremely slim construction with only 6 mm depth gives you maximum flexibility in your equipment design. Powerful starterkits with signal conditioning and visualization are also available. (ST100/ST200)

Block Diagram

Figure 1: K-LC5 Blockdiagram (FM input not present on K-LC5-RFB-01x)

