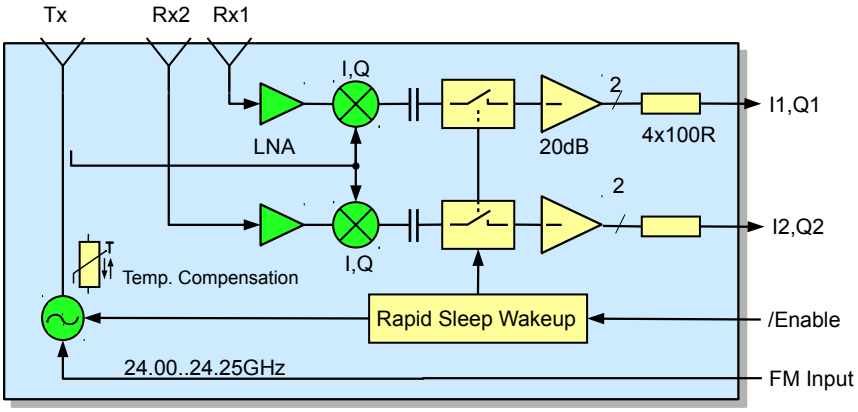
K-MC4

Block diagram



Operational description

K-MC4 is a Doppler Transceiver with an asymmetrical beam and two receiver antennas. This configuration allows measuring the angle of moving objects. This technique is often simply called “Monopulse Radar”, but in fact it is a “Phase-Comparison Monopulse” technique.
Target deviation of +/-15° from main axis results in a phase deviation of +/- 100° at the IF outputs I1/I2 or Q1/Q2 respectively.

The unique "RSW" *R*apid *S*leep *W*akeup function with <5µs wakeup time makes this module ideal for battery operated equipment. Typical duty cycle in RWS mode may be < 1% with full movement detection capability by sampling the IF signals.
An extremely slim construction with only 6mm depth gives you maximum flexibility in your equipment design.