



Hella KGaA Hueck & Co.  
59552 Lippstadt

## Technical Bulletin

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No.:

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Subject:

LCA 3.5 – Lane Change Assistant

Author: Wixforth

Org: E-ED-DAS-DR

Ref.:

Enclosures:

### Short Description

The LCA is an advanced driver assistant system, to warn the driver of the subject vehicle against potential collisions with vehicles to the side or to the rear of the subject vehicle, and moving in the same direction as the subject vehicle during lane change manoeuvres. The system therefore detects vehicles to the rear and sides of the subject vehicle. The system will not take any automatic action to prevent possible collisions. Responsibility for the safe operation of the vehicle remains with the driver.

The LCA consists of two radar sensor units which are mounted behind the rear bumper in the left and right rear corners of a car so that the rear and the sides of the car can be observed.

### Technical Data

Part Numbers	LCA 3.5
Supply Voltage & Current	9 V ... 15 V 0,36 A
EIRP	< +12,7 dBmW average < +20 dBmW peak
Transmit Antenna Gain	10 dBi
Antenna Type	microstrip patch array
Modulation	FMCW
Frequency Band 1	24075 MHz ... 24175 MHz
Modulation Bandwidth	< 100 MHz
Frequency Band 2	24150 MHz ... 24250 MHz
Modulation Bandwidth	< 100 MHz
Frequency Band 3	24050 MHz ... 24250 MHz
Modulation Bandwidth	< 200 MHz
Operating Temperature Range	-40...85°C
Number of PCBs	1
Dimensions	98 * 78 * 26 mm
Volume	< 200 cm <sup>3</sup>
Weight (OEM-value)	< 170 g
Housing material	Plastic

signed by:

checked by: