

KATHREIN Automotive GmbH, Roemerring 1, 31137 Hildesheim

Declaration

October 05, 2018

To whom it may concern:

We

KATHREIN Automotive GmbH
Roemerring 1
31137 Hildesheim

declare that the antenna options for LTE Compensator US
FCC-ID 2ACC7LTECOMPB1 were done for 3 Outside Antenna combinations.
Inside Antenna options are not applicable for the model LTECOMPB1 due to
fixed mounted cradles with an integrated antenna. Cradle Antennas are
considered within the Mobile Station Coupling Losses (MSCL) documentation.

Outside Antenna combinations:

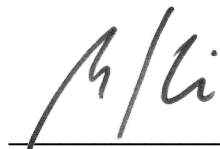
1. DA GSS/TEL/TEL/SDARS LTE
2. Telefonantenne1 Frontend Folie
3. ECU-01 R1-US-3G / ANT 3G TEL GPS SDARS

Product Name: Compensator US

Brand: KATHREIN Automotive

Model Number: LTECOMPB1

Yours Faithfully,



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Fixed Outside Antenna Combinations

FCC-ID: 2ACC7LTECOMPB1

	Band 12/17	Band 13	Band 5	Band 4	Band 2
Uplink Frequency (MHz)	698-716	777-787	824-849	1710-1755	1850-1910

1 DA GNSS/TEL/TEL/SDARS LTE**9350090-01**

Antenna Gain (dBi)	-0,83	0,75	-0,26	2,66	3,15
Coax Loss (dB) -> min. cable length 1 m	0,48	0,50	0,52	0,78	0,80
Final Gain less Loss (dBi)	-1,31	0,25	-0,78	1,88	2,35
Max. Output Power (dBm) LTE / UMTS / CDMA / CDMA2000	21	21	21	21	21
Max. Output Power (dBm) GSM	-	-	23	-	23
Production Tolerance (dB)	±1	±1	±1	±1	±1

2 Telefonantenne1 Frontend Folie**9273669**

Antenna Gain (dBi)	-2,5	-4	-3	-5	-4
Coax Loss (dB) -> min. cable length 1 m	0,48	0,50	0,52	0,78	0,80
Final Gain less Loss (dBi)	-2,98	-4,50	-3,52	-5,78	-4,80
Max. Output Power (dBm) LTE / UMTS / CDMA / CDMA2000	21	21	21	21	21
Max. Output Power (dBm) GSM	-	-	23	-	23
Production Tolerance (dB)	±1	±1	±1	±1	±1

3 ECU-01 R1-US-3G + ANT 3G TEL GPS SDARS**9395306-01 + 9303036-03**

Antenna Gain (dBi)	-3,59	-6,07	-3,26	0,28	0,48
Coax Loss (dB) -> min. cable length 1 m	0,48	0,50	0,52	0,78	0,80
Final Gain less Loss (dBi)	-4,07	-6,57	-3,78	-0,5	-0,32
Max. Output Power (dBm) LTE / UMTS / CDMA / CDMA2000	21	21	21	21	21
Max. Output Power (dBm) GSM	-	-	23	-	23
Production Tolerance (dB)	±1	±1	±1	±1	±1