



MFR1.2C03

Antenna specifications

Certification documents
CONFIDENTIAL

Version: 1.0

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SMART TECHNOLOGY FOR SMARTER MOBILITY

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Document Purpose

This document describes the antenna specifications of the MFR1.2C03 automotive exterior radar.

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1. Simulated antenna gain

A simulated antenna gain value is not provided since all measurements are intended to be performed radiated.

2. Modulation characteristics

The modulation of the sensor is FMCW.

3. Waveform Parameters

The waveform parameters are shown below for the two modes that the sensor supports.

Waveform Parameters	Driving mode
Measured Bandwidth in MHz	598
Samples per chirp	2048
Number of range bins	942
Sampling frequency in MHz	40
Number of chirps	256

Resulting parameters	Driving mode
Chirp duration (single chirp) in μ s	51.2
Range resolution in m (bin size)	0.2653
Maximum Instrumented range in m	249.9
Total measurement time (sampling) in ms	13.1