

## Product Name:

The DUT is named **MRR**, which stands for Mid Range Radar.

## Users Manual / Operational Description:

The Device Under Test (DUT) is a 76 - 77 GHz vehicular radar. The device employs a dynamic chirp modulated transmit array. Multiple receive antennas are used to determine target horizontal angular resolution through digital beam forming. When installed on a vehicle, the device will operate when the vehicle is running. The nominal operating voltage is 13.5 VDC.

*This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.*

### Antenna Operation

Item		Specification
Frequency Band (GHz)		76.5 +/- 0.5
VSWR		=< 2.0
Polarization (deg)		Vertical
Maximum RF Output Power		6.3 mW (8 dBm) (TX power delivered to antenna)
Average Gain (dBi)		Transmit = 18 Receive = 18
Beamwidth	Azimuth (deg)	50
	Elevation (deg)	5
Operating Temperature (degC)		from -40C to +85C