

3. GENERAL INFORMATION

3.1 Product Description

The Inkel Corp., Model JR-20 (referred to as the EUT in this report) is a RF Repeater system that consists of Coverage Unit (CU), Donor Unit (DU), Coverage Antenna, and BIAS-T. The DC Power shall be fed to BIAS-T and then the power shall be supplied to CU and DU through BIAS-T. The role of the DU is to communicate with the BTS and it is usually located outside the building where service is to be improved and the unit can be mounted onto a wall or a pole, depending on the specific installation needs. The role of the CU is to communicate with the mobiles within the building where needs improved coverage. It is intended for wall mounting. According to above aim of each unit, the DU downlink port shall be connected to BIAS-T using coaxial cable and the output of BIAS-T shall be connected to the Uplink port of the CU using coaxial cable. The FCC ID for CU is P87JR20CU and the FCC ID of DU is P87JR20DU and this report covers for CU and another report for DU shall be issued with another test report. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE		RF Repeater
OPERATING FREQUENCY	CELLULAR	Downlink: (869~894) MHz, Uplink: (824~869) MHz,
	PCS	Downlink: (1930~1990)MHz, Uplink: (1850~1910) MHz
RATED CONDUCTED RF OUTPUT POWER	CELLULAR	Downlink: 12 dBm (0.013 W), Uplink: - 38 dBm
	PCS	Downlink: 17 dBm (0.05 W), Uplink: - 50 dBm
TYPE OF MODULATION		F9W
EMISSION DESIGNATOR		1M34F9W
DC VOLTAGE & CURRENT INTO FINAL AMPLIFIER	CELLULAR	Downlink: 5 V, 85 mA , Uplink: 4.96 V, 70 mA
	PCS	Downlink: 3.3 V, 230 mA, Uplink: 4.96 V, 70 mA
USED COVERAGE ANTENNA	TYPE	Model No: TB-800/1900-T, MFR: Satena
	GAIN	1 dBi
ANTENNA CONNECTOR		SMA Type
NUMBER OF LAYER		4 Layers
POWER REQUIREMENT		DC 12 V, 5 A through BIAS-T from AC/DC Adapter
EXTERNAL CONNECTOR		SMA Type and TNC Connector

3.2 Alternative type(s)/model(s); also covered by this test report.

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4. EUT MODIFICATIONS

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