

AR5000A+3B (FCC ID: NVJAR5000A) Communications Receiver

Signal Rejection Requirement

	AR5000A Receive Frequency(Rx) (in MHz)	12dB SINAD (dBm)	Image Reception		
			12dB SINAD (dBm)	Relative Value (dB)	Cellular Frequency(Ri) (in MHz)
1	2068.200	-122.5	-43.5	79.0	824.200
2	2074.200	-122.5	-44.5	78.0	830.200
3	2080.400	-122.5	-45.5	77.0	836.400
4	2086.600	-122.5	-46.0	76.5	842.600
5	2092.800	-122.5	-47.0	75.5	848.800
6	2113.400	-122.0	-49.0	73.0	869.400
7	2119.200	-122.0	-50.0	72.0	875.200
8	2125.400	-122.0	-50.5	71.5	881.400
9	2131.600	-122.0	-51.5	70.5	887.600
10	2137.800	-121.5	-51.0	70.5	893.800

Conditions:

Receiver settings:

BW :15kHz

MODE: FM

Test Instruments:

Signal Generator: (ROHDE&SCHWARZ Model: SMIQ 06B)

Modulation: FM

Deviation: 3.5kHz

Audio Analyzer: (HEWLETT PACKARD Model: 8903A)

Signal Rejection against Cellular Frequencies (Image Frequencies)

- The 1st IF Frequency: 622.000MHz
- Image Frequencies Ri : Generated by the Signal Generator
- Sensitivity Measurement: 12dB SINAD
- Receive Frequency Rx: Set by the Receiver
- Image Frequency Formula: $R_x = R_i + (2 \times 622.000)$ [MHz]