# Antenna specification of "Bluetooth", "WiFi"

CONFIDENTIAL

2013/4/15 Mitsubishi Electric Corp. Sanda Works

### ■Specification

Model name ANT1466-161CB/U-BT (NISSEI)

ANT1467-161CW/U-WiFi (NISSEI)

•Resonant frequency : 2450MHz •Antenna gain : 2.0dBi (max)

Band frequency(VSWR≤3): 2400~2500MHz (bandwidth:100MHz)

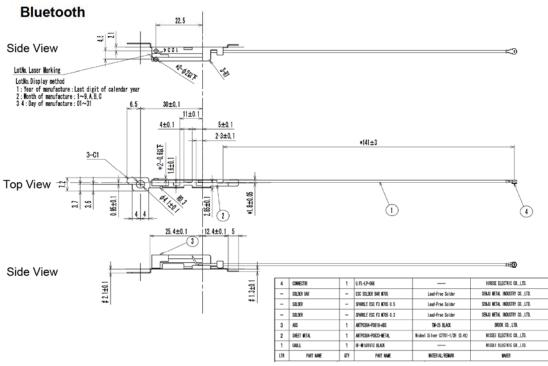
### ■Outline view

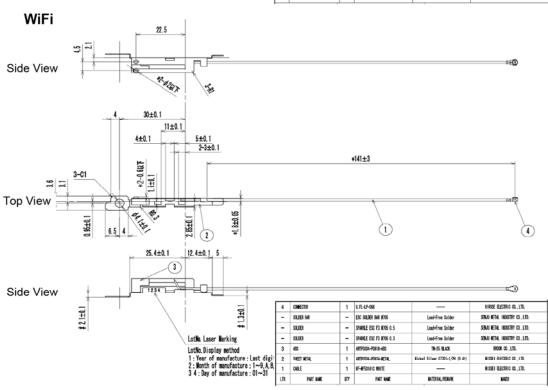




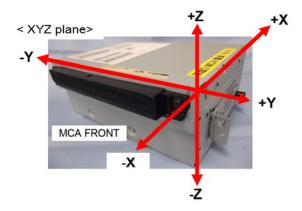


## [Antenna Outline]





## ■Average power gain and emission pattern in 2450MHz

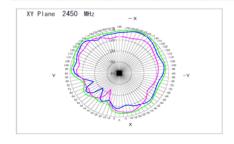


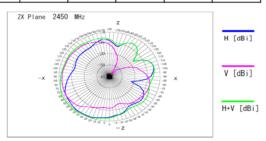
## **Bluetooth Antenna**

## Emission characteristic

Measured frequency 2450MHz
YZ plane and ZX plane combination -2.7dBi

Frequency [MHz]	Plane	Polarized wave	Peak [dBi]	360° Avg. [dBi]	360° True value	Sum of True value	Combination [dBi]	DIP [dBi]	DIP-AVE [dB]
2450	XY	XY (H)	0. 77	-4. 25	0. 38	0. 59	-2. 27	-12. 35	9. 37
		XY (V)	-2. 56	-6. 64	0. 22				
	ZX	XY (H)	-0. 40	-5. 63	0. 27	0. 47	-3. 26	-16. 83	13. 85
		XY (V)	-1. 76	-7. 02	0. 20				





## WiFi Antenna

#### Emission characteristic

Measured frequency 2450MHz
YZ plane and ZX plane combination -2.2dBi

Frequency [MHz]	Plane	Polarized wave		360° Avg. [dBi]	360° True value		Combination [dBi]	DIP [dBi]	DIP-AVE [dB]
2450	XY	XY (H) XY (V)	2. 13 -2. 46	-3. 33 -8. 13	0. 46 0. 15	0. 62	-2. 09	-11. 68	9. 41
	ZX	XY (H) XY (V)	0. 63 -1. 15	-5. 41 -5. 42	0. 29 0. 29	0. 58	-2. 40	-11. 17	8. 89

