

Antenna specification of "Kleer"

CONFIDENTIAL

2014/1/7
Mitsubishi Electric Corp.
Sanda Works

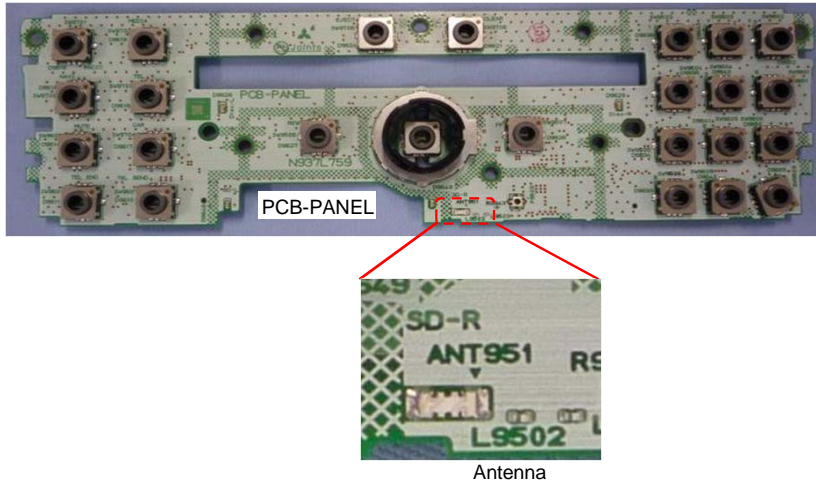
■Specification

Model name AM03DG-ST01 (Mitsubishi material)

・Antenna gain(2442MHz): -4.3dBi, VSWR=2.09

・Band frequency(VSWR≤3): 2252~2652MHz (bandwidth:400MHz)

■Outline view



【Antenna Outline】

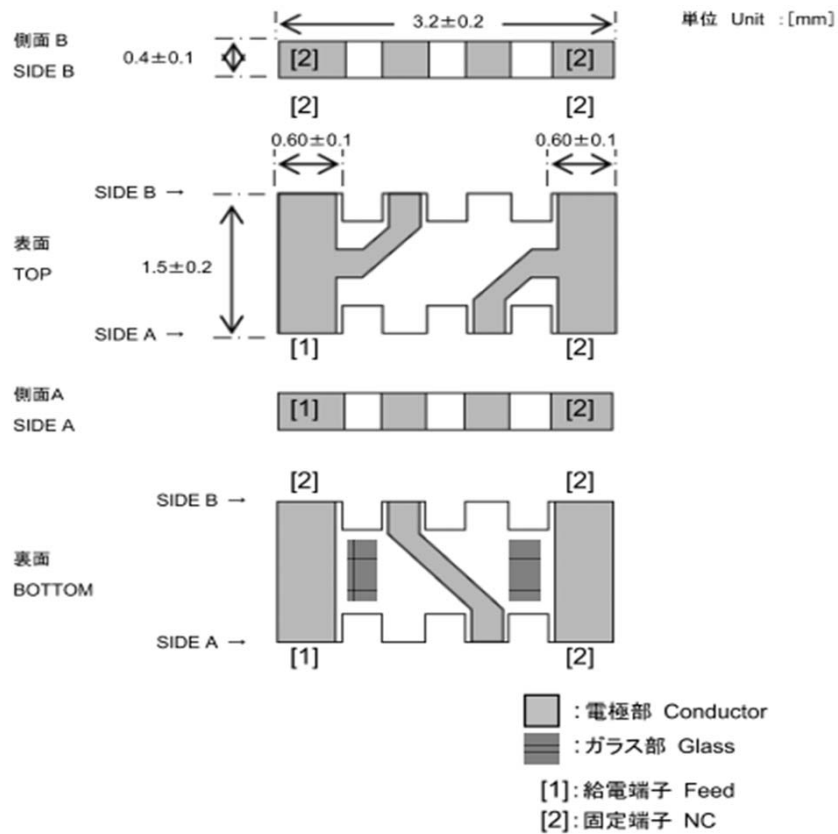
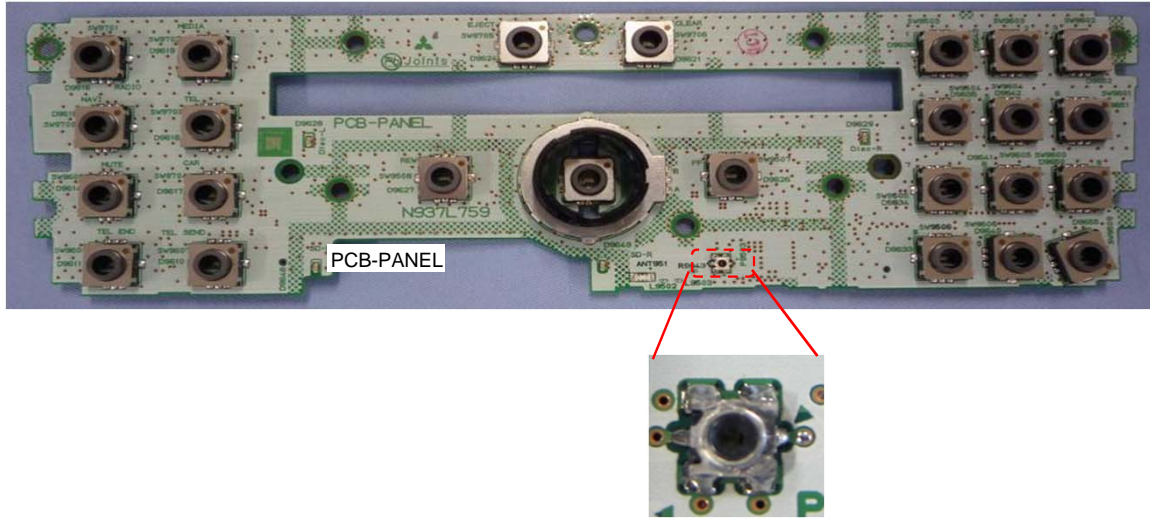


図 1. 外形寸法／電極配置図 [単位: mm]

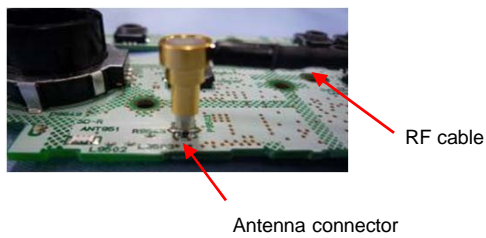
Fig. 1. Dimensions [Unit: mm]

【Antenna connector】

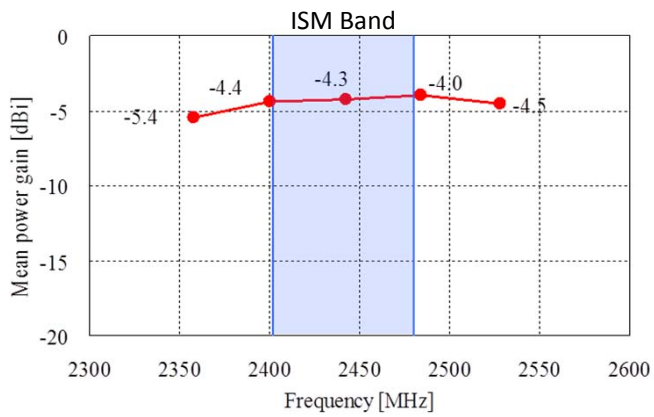
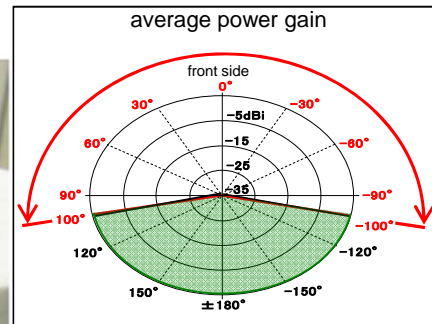


Antenna connector

Please connect the RF cable to Antenna connector in order to derive the RF from Kleer module.



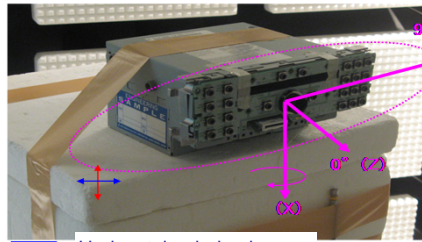
■ Measurement results of antenna gain and emission pattern



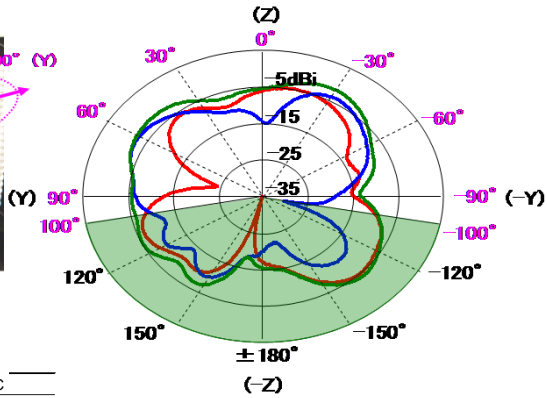
Average power gain and emission pattern in 2442MHz

Emission characteristic		2442MHz
Measured frequency		
YZ plane and ZX plane combination(±100C)		-4.3dBi

YZ平面



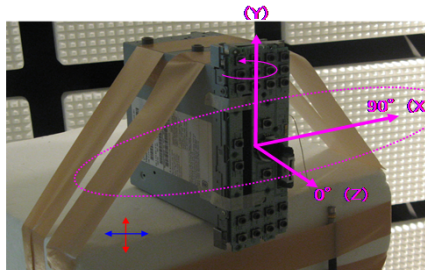
- Horizontal polarized wave
- Vertically-polarized wave
- ↑ Power gain



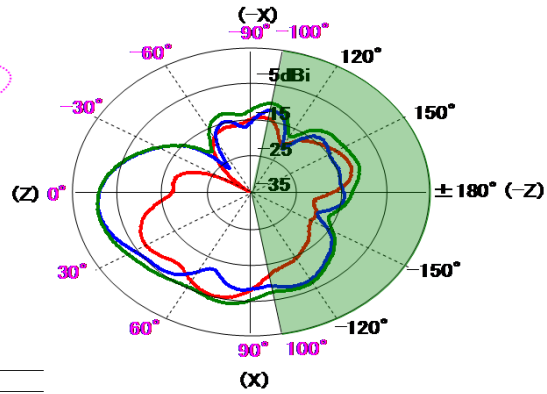
<Emission pattern for YZ plane>

	average±100C	average±360C
HorizontalYZ(H)	-6.5 dBi	-8.3 dBi
VerticalYZ(V)	-8.3 dBi	-8.3 dBi
Combination	-4.3 dBi	-5.3 dBi

< ZX plane>



- Horizontal polarized wave
- Vertically-polarized wave
- ↑ Power gain



<Emission pattern for ZX plane>

	average±100C	average±360C
HorizontalYZ(H)	-5.6 dBi	-7.4 dBi
VerticalYZ(V)	-10.0 dBi	-11.5 dBi
Combination	-4.3 dBi	-5.9 dBi