

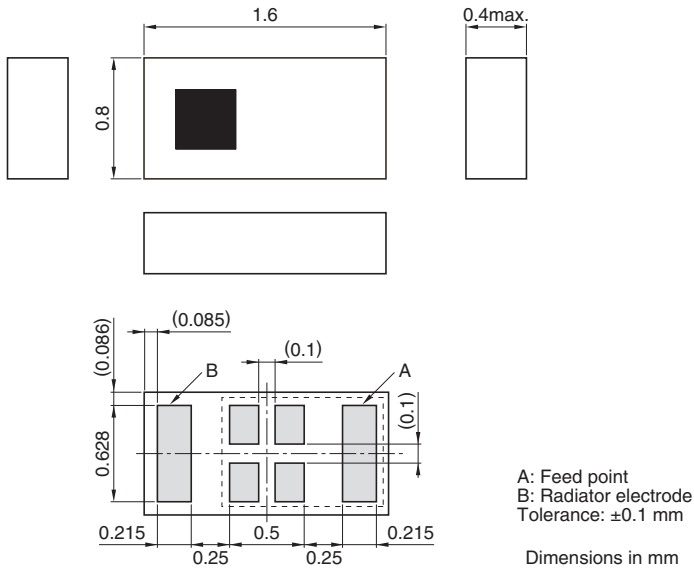
Multilayer Chip Antennas

For 2.4GHz band

Conformity to RoHS Directive
Halogen-free

ANT Series ANT016008LCS2442MA2

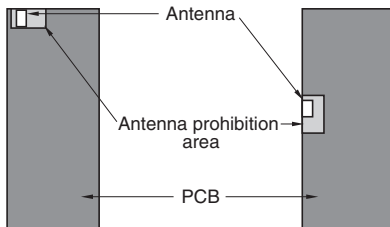
SHAPES AND DIMENSIONS



STANDARD MOUNTING POSITIONS FOR ANT016008LCS2442 PRODUCTS

MA2 (This product)

MA1



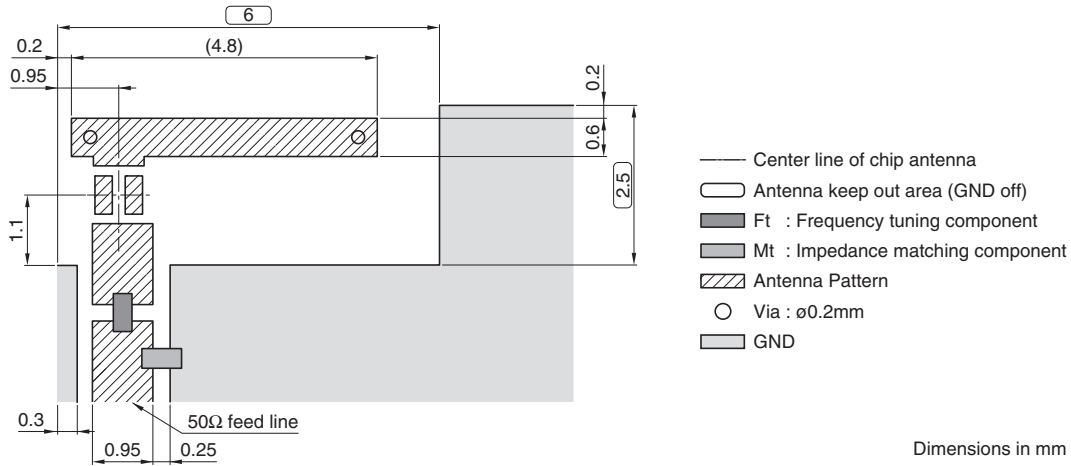
- **Conformity to RoHS Directive:** This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- **Halogen-free:** Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

• All specifications are subject to change without notice.

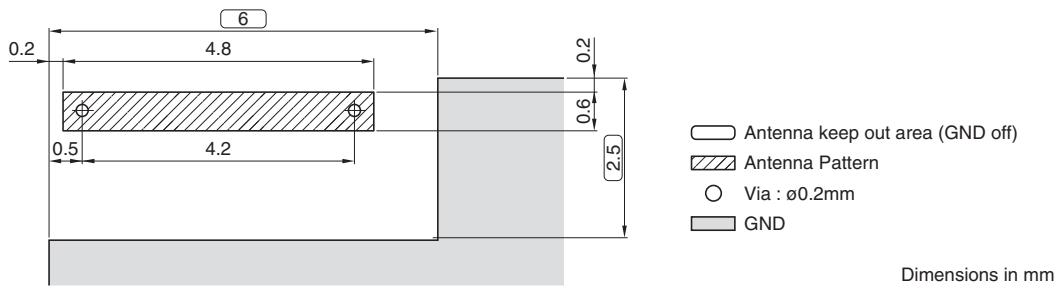
RECOMMENDED PC BOARD PATTERNS

ELECTRODE

Top side

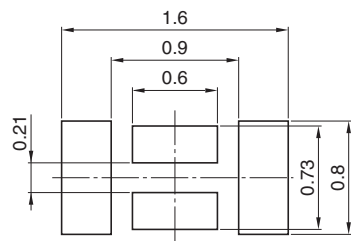


Bottom side

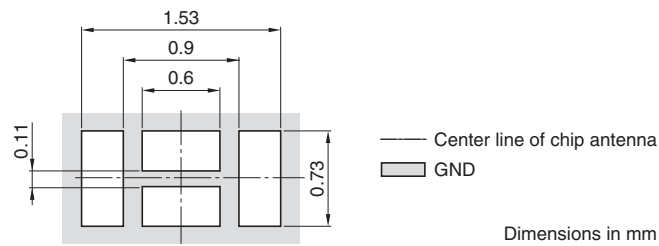


LAND PATTERN/SOLDER RESIST

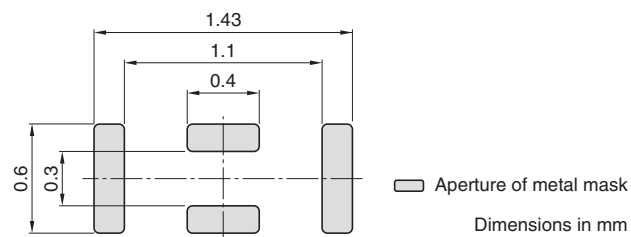
Land pattern



Solder resist



RECOMMEND APERTURE SIZE OF METAL MASK FOR SOLDER PRINTING



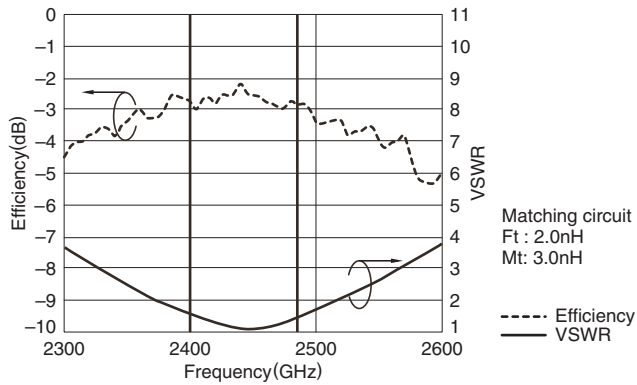
ELECTRICAL CHARACTERISTICS

Center frequency		2442MHz
Band width(BW)		±42MHz
VSWR (at BW)		3
Polarization		Linear
Impedance		50Ω
PCB size		50×10×1.0mm ³
Antenna keep-out area		6×2.5mm ²
Temperature range	Operating	−40 to +85°C
	Storage	−40 to +85°C

• This is typical antenna performance with the standard PCB.

FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR



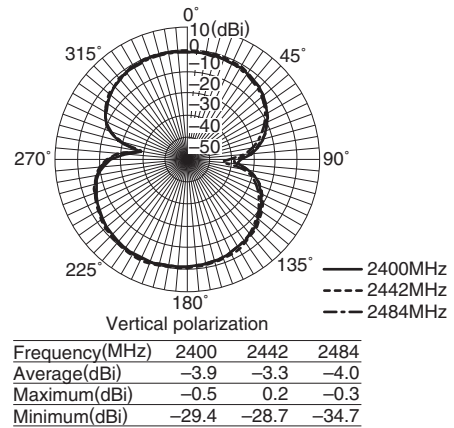
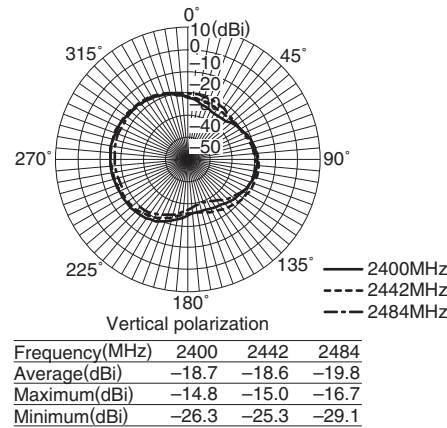
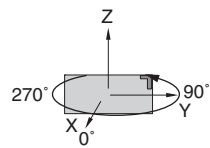
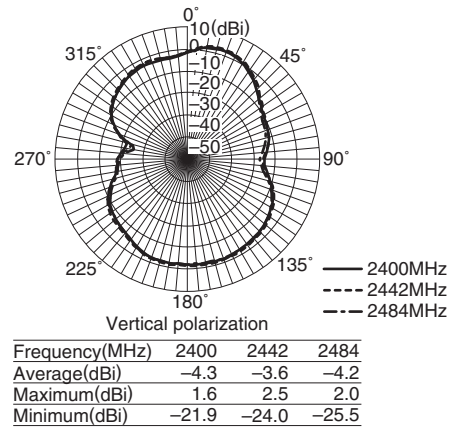
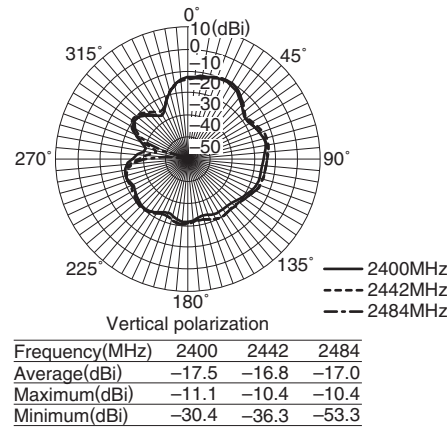
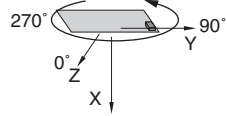
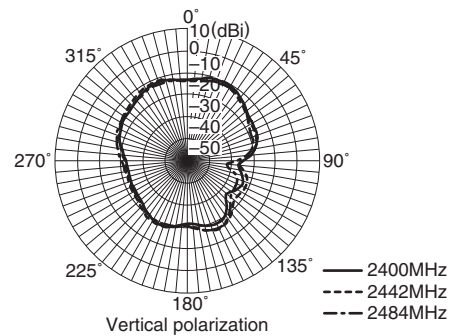
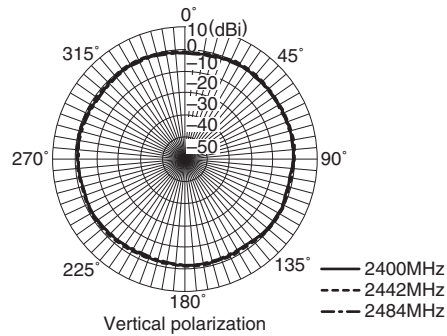
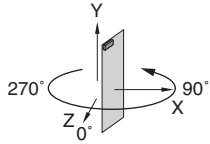
RADIATION PATTERNS

Directivity angle

Vertical polarization



Horizontal polarization



• Tested antenna has been soldered. Evaluation board size is 50×10×1 mm³.

• All specifications are subject to change without notice.