

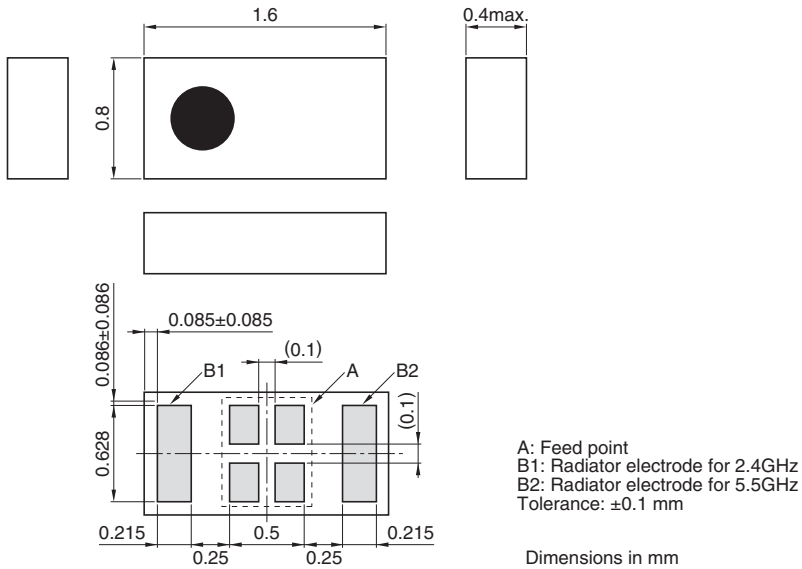
Multilayer Chip Antennas

For IEEE802.11a/b/g/n

Conformity to RoHS Directive
Halogen-free

ANT Series ANT016008LCD2442MA1

SHAPES AND DIMENSIONS



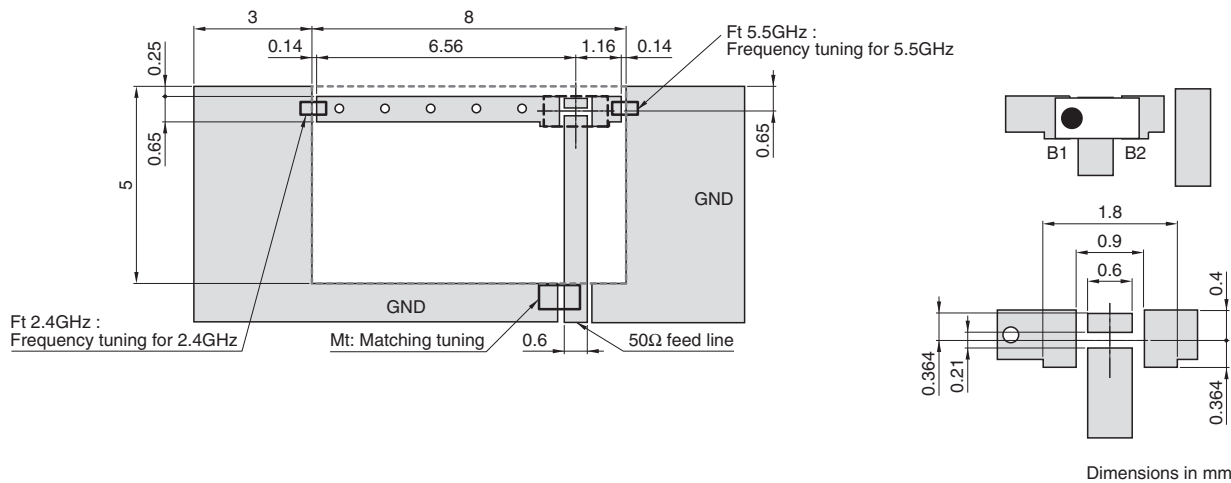
- **Conformity to RoHS Directive:** This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- **Halogen-free:** Indicates that Cl content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

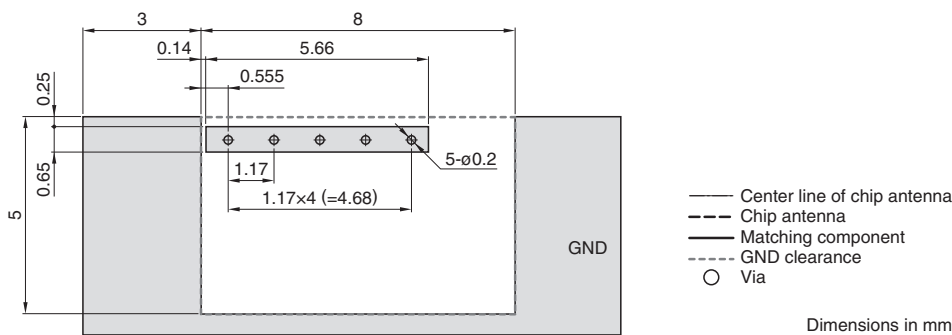
RECOMMENDED PC BOARD PATTERNS

ELECTRODE

Front side

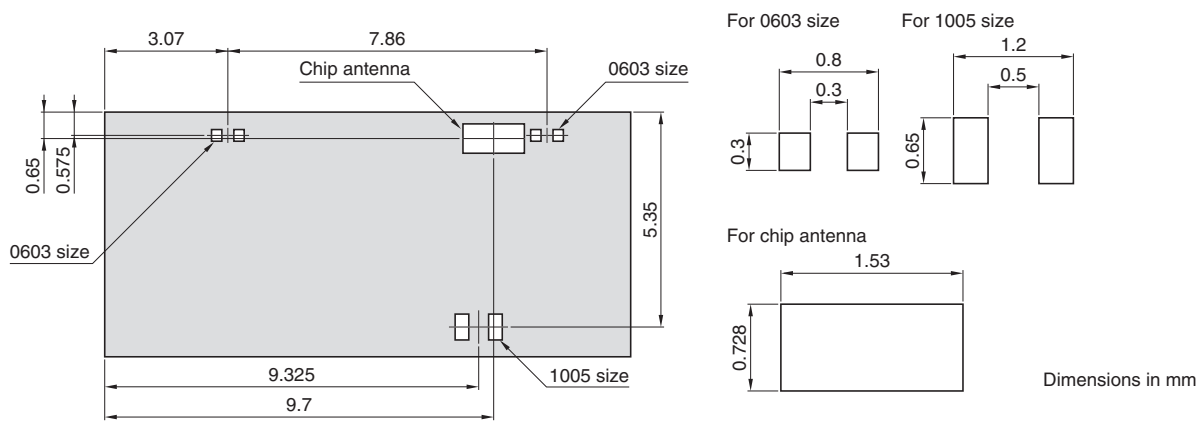


Back side

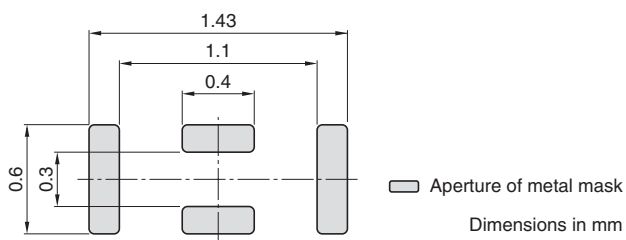


SOLDER RESIST

Front side



RECOMMEND APERTURE SIZE OF METAL MASK FOR SOLDER PRINTING



ELECTRICAL CHARACTERISTICS

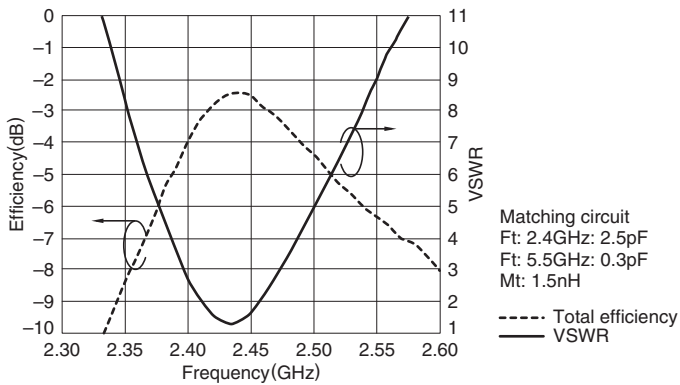
Center frequency (F _{11b/g/n} , F _{11a})	F _{11b/g/n} 2442MHz, F _{11a} 5500MHz
Band width(BW) (F _{11b/g/n} , F _{11a})	F _{11b/g/n} ± 42 MHz, F _{11a} ± 350 MHz
VSWR (at BW) (F _{11b/g/n} , F _{11a})	F _{11b/g/n} 6.5max. F _{11a} 4max.
Polarization	Linear
Impedance	50 Ω
PCB size	120×65×1.0mm
Temperature range	Operating Storage
	-40 to +85°C -40 to +85°C

• This is typical antenna performance with the standard PCB.

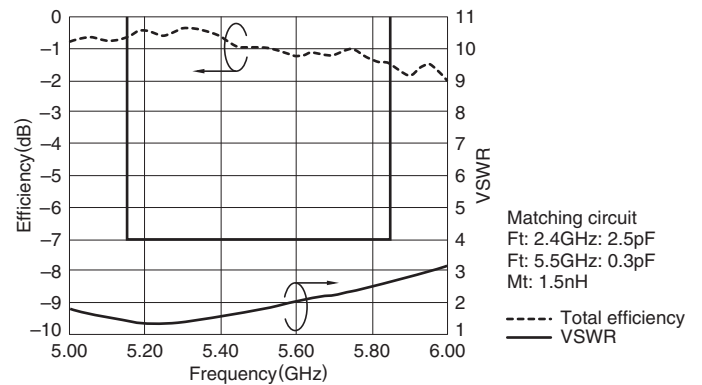
FREQUENCY CHARACTERISTICS

EFFICIENCY AND VSWR

IEEE802.11b/g/n



IEEE802.11a



RADIATION PATTERNS

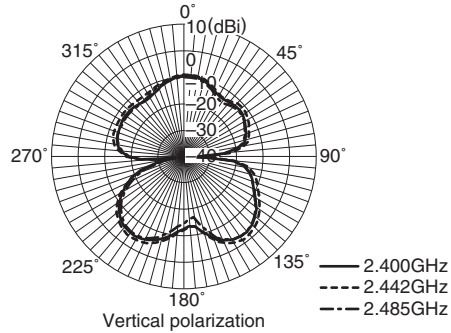
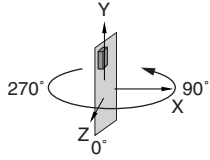
IEEE802.11b/g/n

Directivity angle

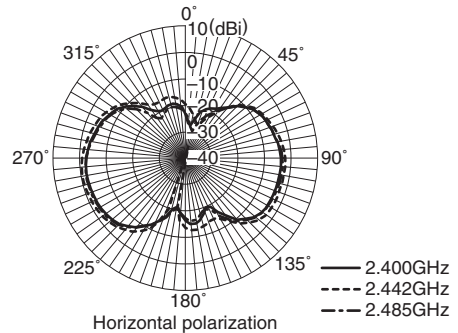
Vertical polarization



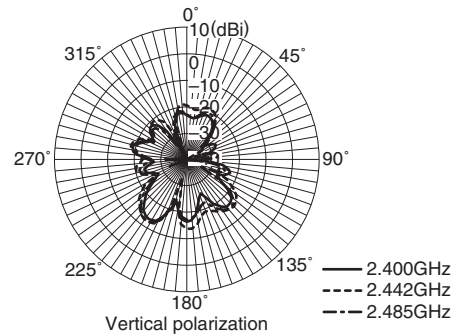
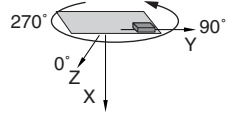
Horizontal polarization



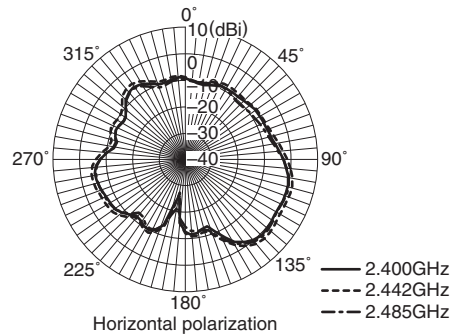
Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-9.62	-8.45	-10.13
Maximum(dBi)	-2.82	-1.44	-3.02
Minimum(dBi)	-36.90	-34.11	-32.46



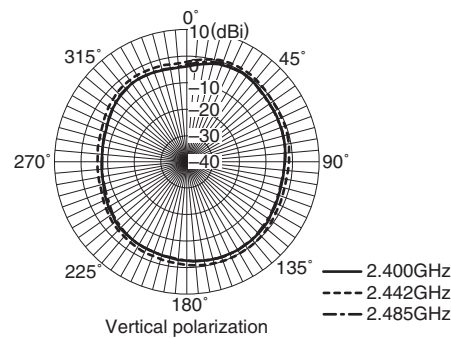
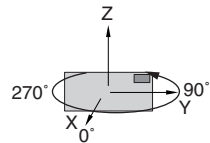
Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-7.06	-5.44	-6.82
Maximum(dBi)	-2.18	-0.48	-1.94
Minimum(dBi)	-27.38	-44.31	-29.46



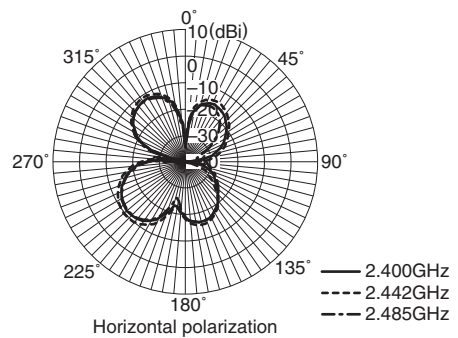
Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-21.03	-19.00	-20.43
Maximum(dBi)	-13.19	-12.04	-12.29
Minimum(dBi)	-48.22	-46.88	-40.26



Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-5.81	-4.32	-5.70
Maximum(dBi)	0.54	2.27	1.19
Minimum(dBi)	-26.20	-27.25	-22.01



Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-3.21	-1.68	-3.18
Maximum(dBi)	-0.54	0.98	-0.23
Minimum(dBi)	-7.87	-6.33	-7.97



Frequency(GHz)	2.400	2.442	2.485
Average(dBi)	-17.05	-15.74	-17.47
Maximum(dBi)	-11.24	-9.64	-11.46
Minimum(dBi)	-48.22	-51.80	-40.53

• Tested antenna has been soldered. Evaluation board size is 120×65×1 mm.

• All specifications are subject to change without notice.

RADIATION PATTERNS

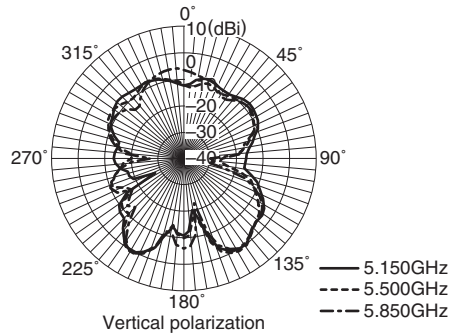
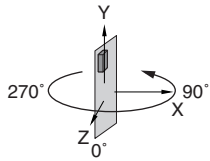
IEEE802.11a

Directivity angle

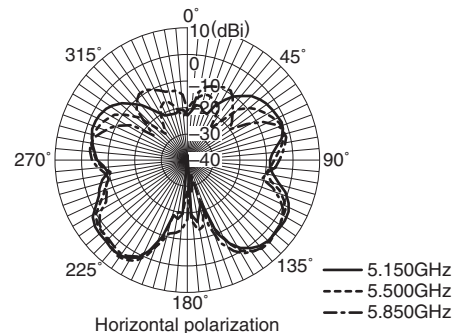
Vertical polarization



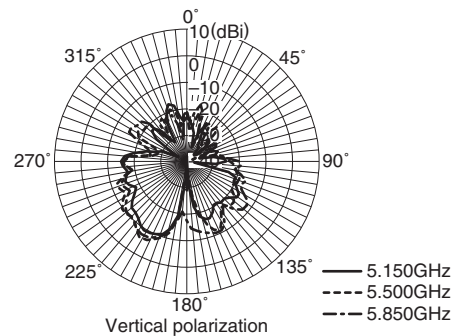
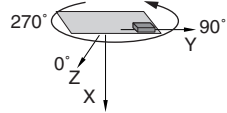
Horizontal polarization



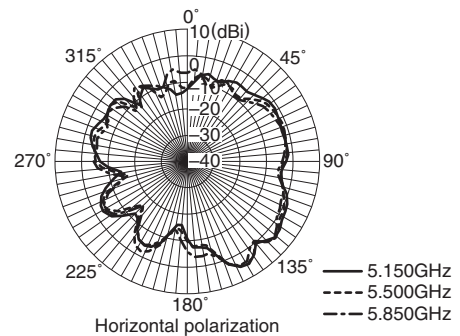
Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-7.05	-7.06	-7.32
Maximum(dBi)	0.04	0.89	0.31
Minimum(dBi)	-27.83	-26.31	-30.64



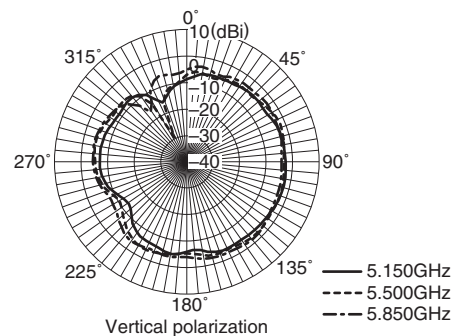
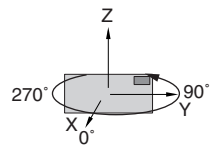
Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-2.39	-2.73	-3.25
Maximum(dBi)	4.22	4.78	3.29
Minimum(dBi)	-42.06	-29.06	-34.55



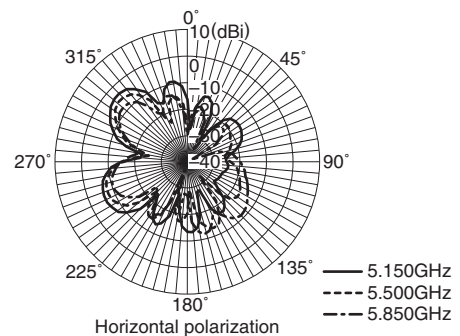
Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-17.92	-15.62	-15.19
Maximum(dBi)	-9.40	-6.43	-7.73
Minimum(dBi)	-42.06	-37.80	-33.50



Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-2.74	-3.11	-3.60
Maximum(dBi)	5.18	5.04	4.09
Minimum(dBi)	-15.95	-17.14	-16.56



Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-5.64	-4.76	-4.21
Maximum(dBi)	-2.18	-1.95	-1.61
Minimum(dBi)	-15.95	-29.68	-16.91



Frequency(GHz)	5.150	5.500	5.850
Average(dBi)	-11.65	-13.95	-15.05
Maximum(dBi)	-3.56	-5.67	-8.20
Minimum(dBi)	-31.10	-32.99	-38.35

- Tested antenna has been soldered. Evaluation board size is 120x65x1 mm.

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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