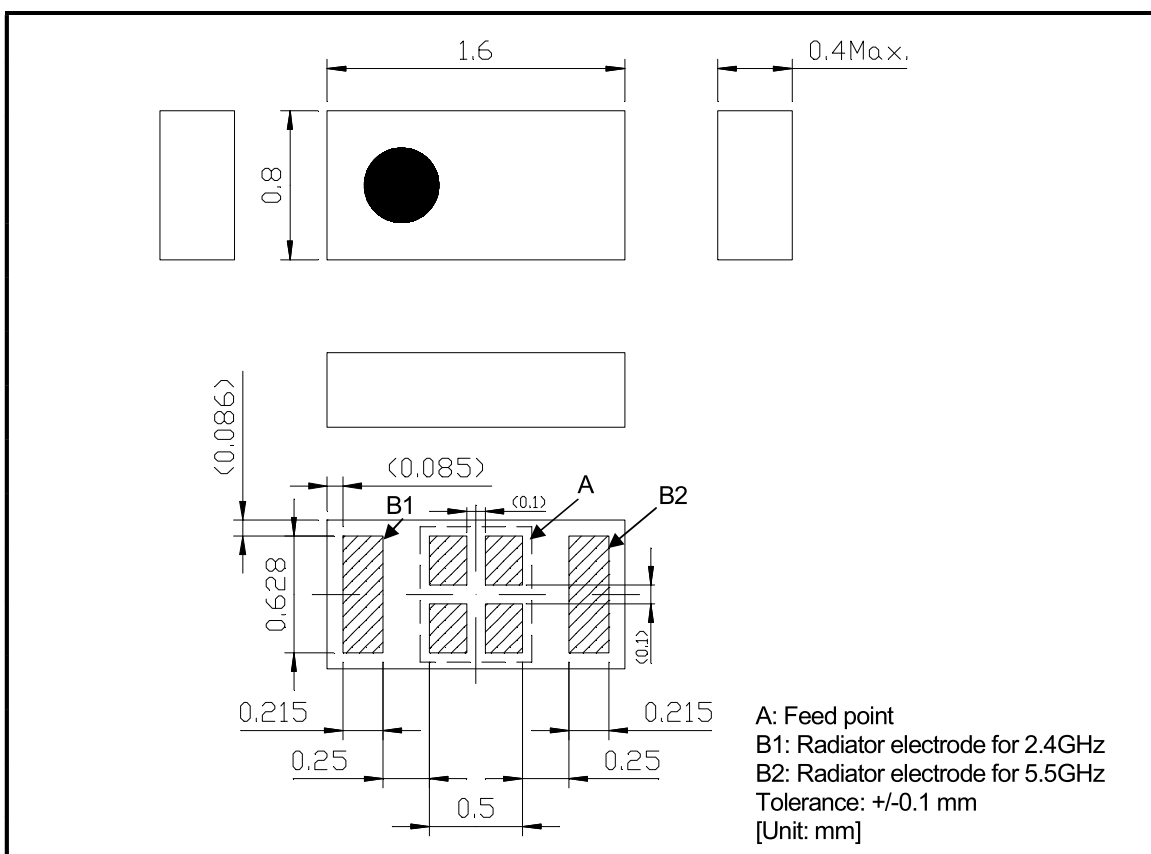


CHIP MULTILAYER ANTENNA FOR IEEE802.11a/b/g/n

SAMPLE P/N: ANT162442DT-2001AM1

[MECHANICAL DIMENSIONS]



[ELECTRICAL CHARACTERISTICS]

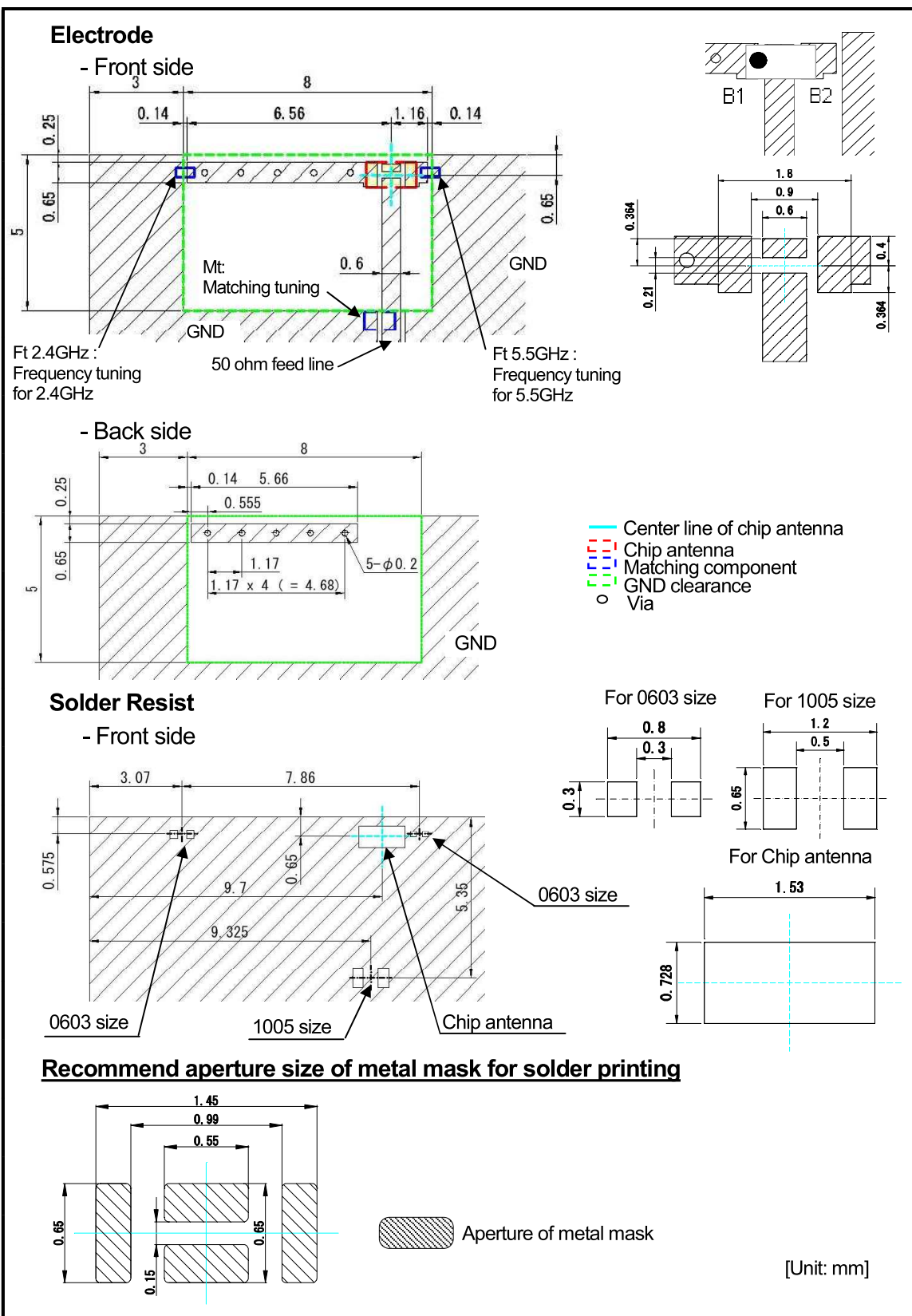
**AEC-Q200 (-40 ~ 85°C)
 qualified component family**

PARAMETER		UNIT
Center Frequency ($F_{11b/g/n}$, F_{11a})	$F_{11b/g/n}$: 2442, F_{11a} : 5500	MHz
Band Width ($F_{11b/g/n}$, F_{11a})	$F_{11b/g/n}$: +/-42, F_{11a} : +/-350	MHz
VSWR at BW ($F_{11b/g/n}$, F_{11a})	$F_{11b/g/n}$: 6.5 (Max.), F_{11a} : 4 (Max.)	
Polarization	Linear	
Impedance	50	ohm
PCB size	120 x 65 x 1.0	mm

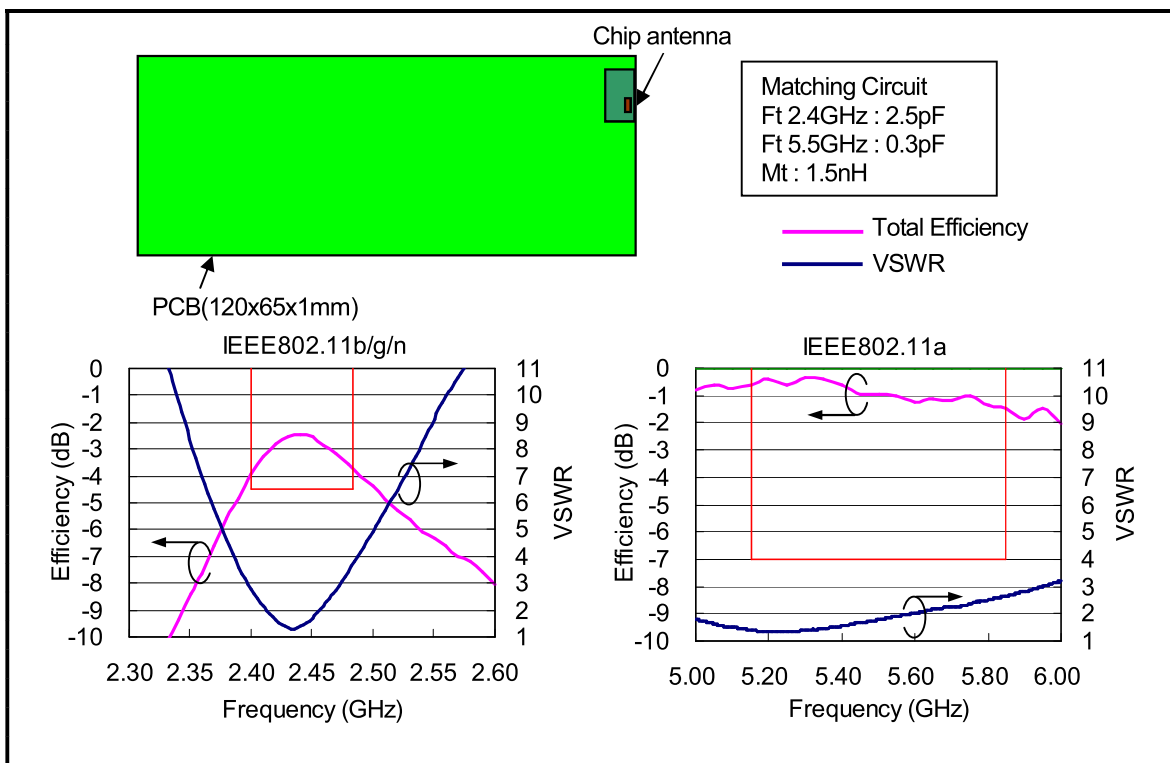
* This is typical antenna performance with the standard PCB.

Operating temperature	-40	+85	°C
Storage temperature	-40	+85	°C

[RECOMMENDED PCB PATTERN]



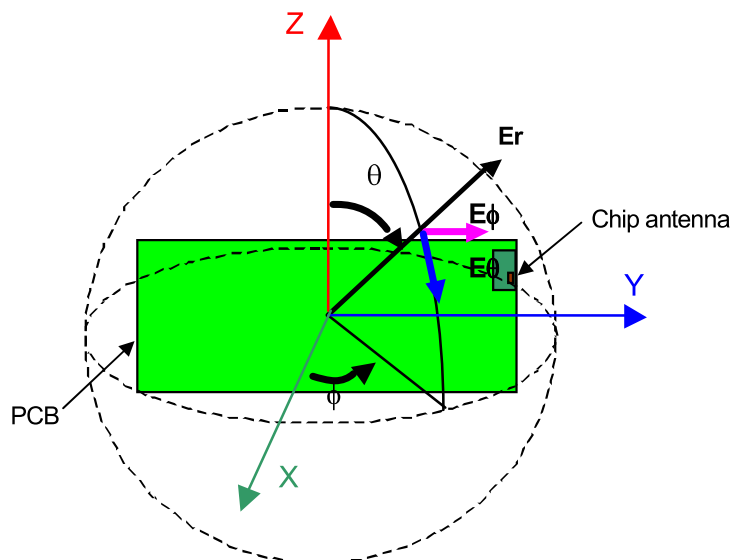
[EFFICIENCY AND VSWR]



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

[RADIATION PATTERN]

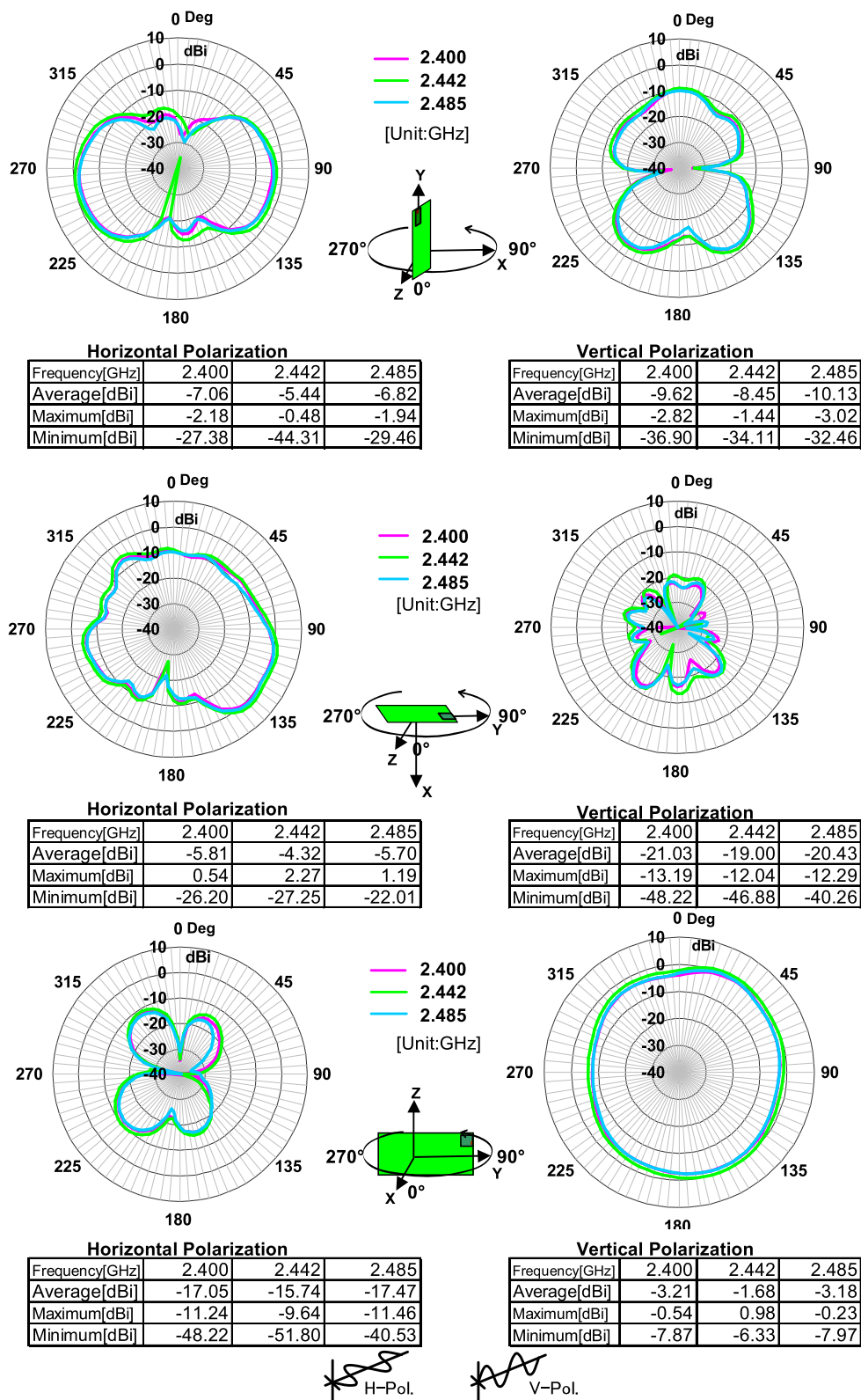
Measurement Method



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

All specifications are subject to change without notice and are not guaranteed.

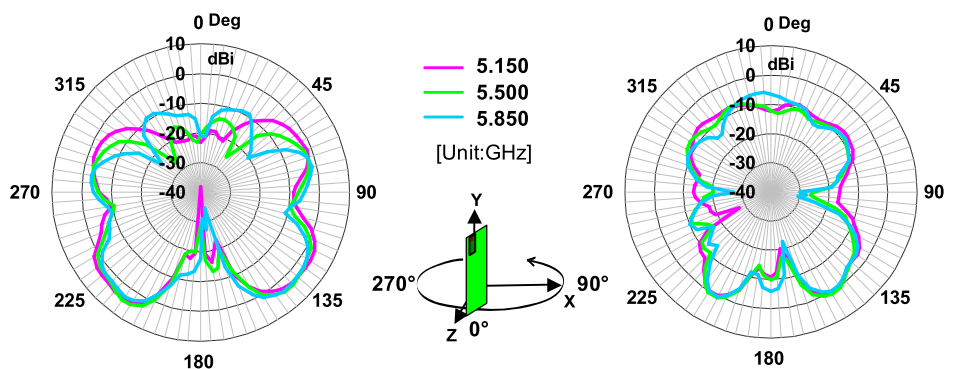
[RADIATION PATTERN - IEEE802.11b/g/n -]



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

All specifications are subject to change without notice and are not guaranteed.

[RADIATION PATTERN - IEEE802.11a -]

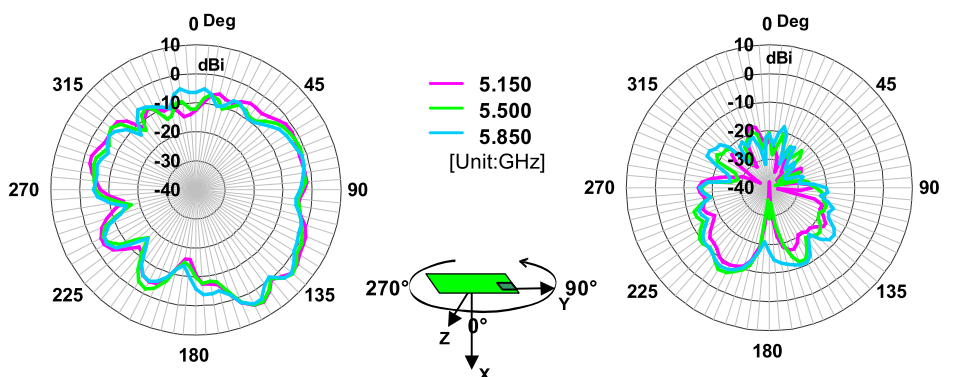


Horizontal Polarization

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

Vertical 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

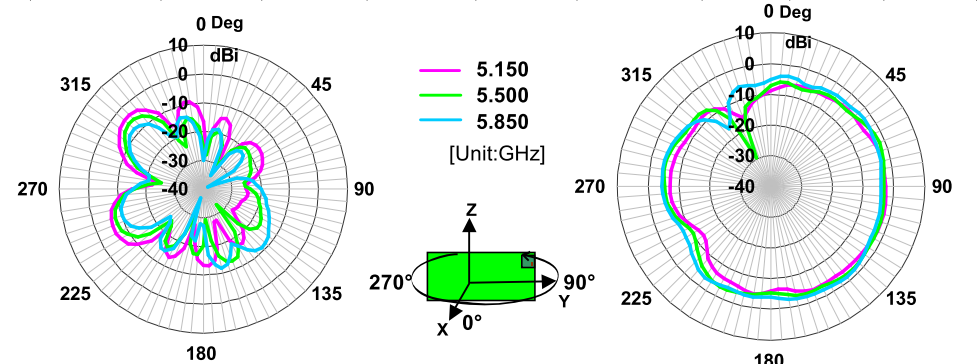


Horizontal Polarization

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

Vertical Polarization

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

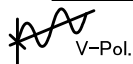


Horizontal Polarization

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

Vertical Polarization

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



Note: Tested antenna has been soldered. Evaluation board size is 120x65x1 mm
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ENVIRONMENT INFORMATION

1. RoHS STATEMENT

ROHS Compliance

2. Non-Use of Halogen (Bromine and Chlorine)

The product does not include Halogens and their compounds based on the following definition.

- Bromine(Br) $\leq$ 900ppm*
- Chlorine(Cl) $\leq$ 900ppm*
- (Bromine(Br)+Chlorine(Cl) $\leq$ 1500ppm*)
(*Certain homogeneous materials)