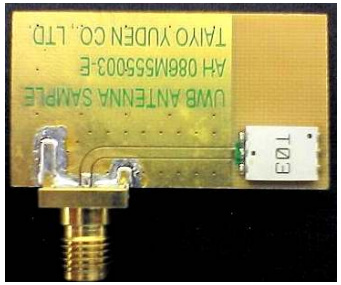
3.1 ~ 8GHz Multilayer Monopole Antenna (for UWB , WiMAX)

Date: Sep/01/2011

AH 086M555003

Shapes

L= 8.0 ± 0.3 mm
W= 6.0 ± 0.3 mm
T= 1.0 ± 0.3 mm



*on Taiyo Yuden's Evaluation Board
(36 x 20 mm)
*Element-GND Distance : 1.5 mm

Feature

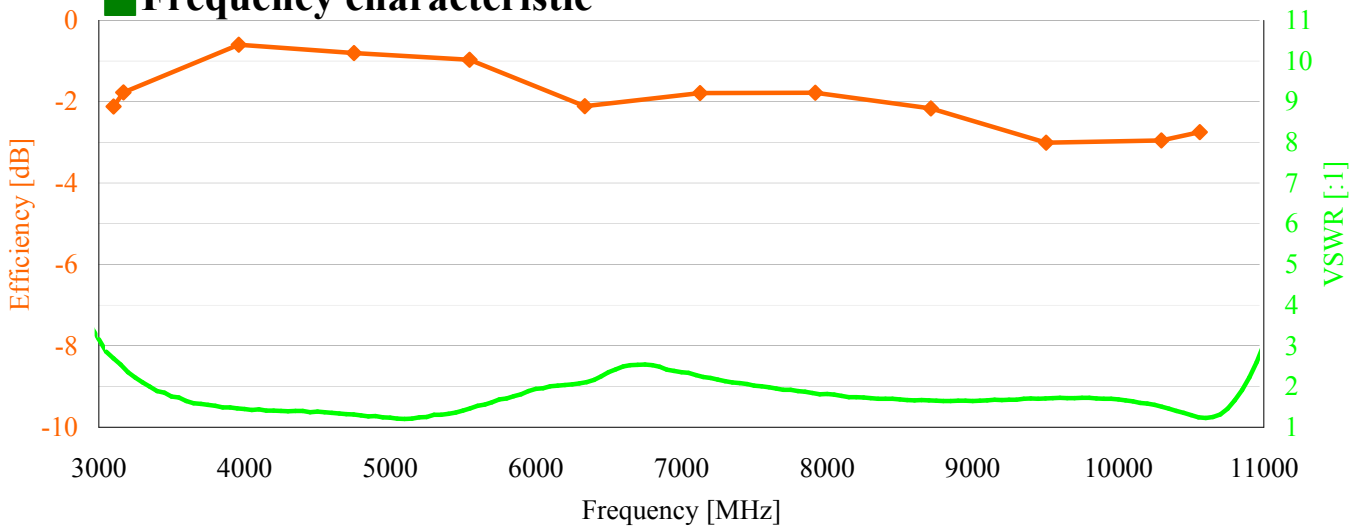
* Small
* Wide Band
* High Performance

*photo :AH 086M555001

Actual data

Efficiency : -0.6 ~ -2.1dB (87 ~ 62%)
Peak Gain : 2.6 ~ 0.7dBi
@3168~7920MHz

Frequency characteristic



Electrical Characteristics

			3100MHz	3168MHz	3960MHz	4752MHz	5544MHz	6336MHz	7128MHz	7920MHz	8712MHz	9504MHz	10296MHz	10560MHz
Efficiency [dB]			-2.1 (61%)	-1.8 (66%)	-0.6 (87%)	-0.8 (83%)	-1.0 (80%)	-2.1 (62%)	-1.8 (66%)	-1.8 (66%)	-2.2 (61%)	-3.0 (50%)	-2.9 (51%)	-2.7 (53%)
Peak gain [dBi]			1.8	2.0	2.6	2.1	1.5	0.8	1.0	0.7	0.4	-0.8	-0.1	0.5
Average gain [dBi]	XY-plane	TX-H	-4.1	-4.0	-2.1	-2.5	-4.3	-6.1	-7.0	-6.1	-5.6	-4.9	-4.7	-4.1
		TX-V	-5.5	-5.7	-4.3	-3.5	-2.7	-3.9	-3.3	-2.6	-3.3	-7.7	-11.7	-12.4
	YZ-plane	TX-H	-3.8	-3.4	-2.7	-2.6	-2.3	-3.4	-3.2	-3.5	-4.1	-5.0	-4.3	-4.3
		TX-V	-14.3	-14.8	-20.1	-19.7	-14.1	-13.9	-11.8	-13.0	-13.4	-14.8	-17.6	-17.0
	ZX-plane	TX-H	-9.8	-9.5	-8.3	-6.5	-5.3	-7.5	-7.7	-6.8	-6.8	-9.7	-14.0	-13.8
		TX-V	-1.1	-0.7	0.5	-0.9	-2.3	-3.5	-2.6	-3.6	-3.6	-3.2	-2.0	-1.6

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the Date at any time without notice.
Before making final selection, please check product specification

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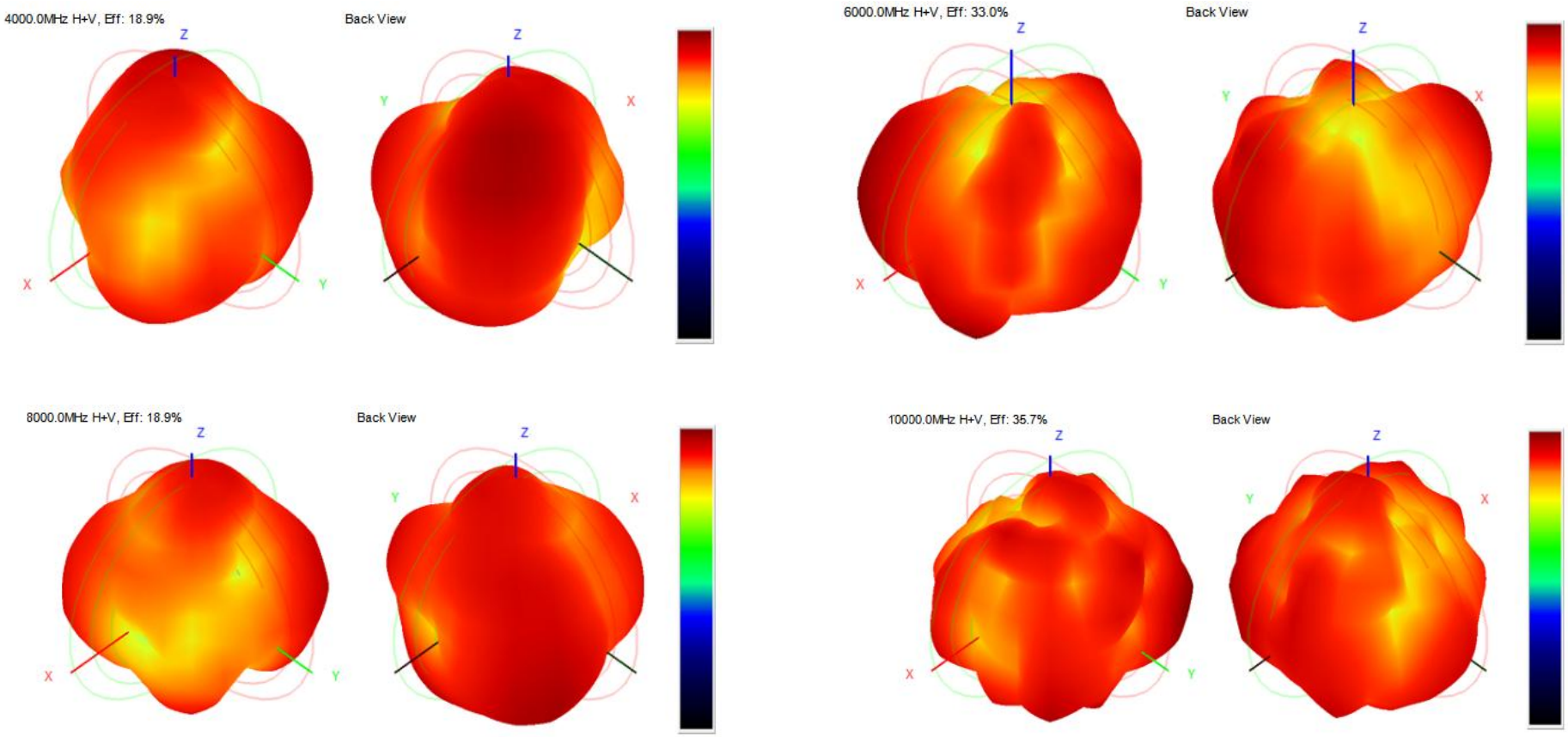
Antenna Gain/Efficiency/3D DATA



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