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Murata Machinery, Ltd.

GHT26-0807

Measurement Results of BLE Remote Control Receiver (ES2)

June 16, 2026

Japan Aviation Electronics Industry, Ltd.
Wireless Business Development Division

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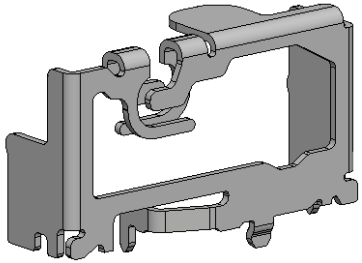
Antenna Specifications

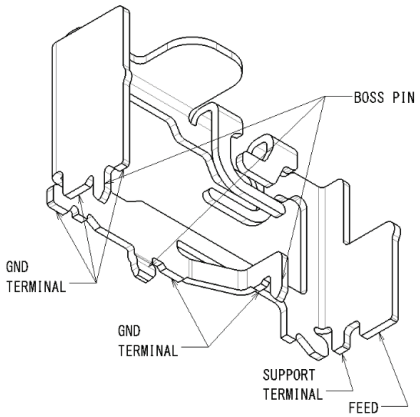
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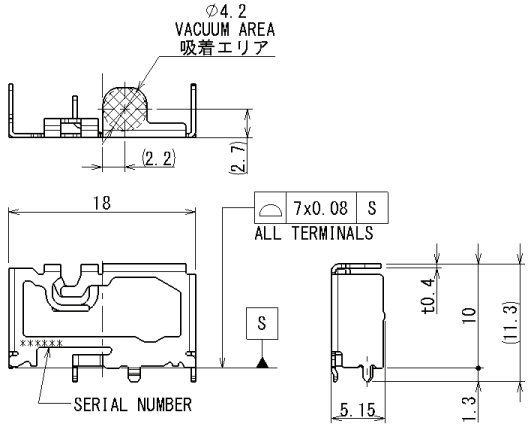
Antenna Model: AN02ML27C00

Antenna Type: Split-Ring Antenna

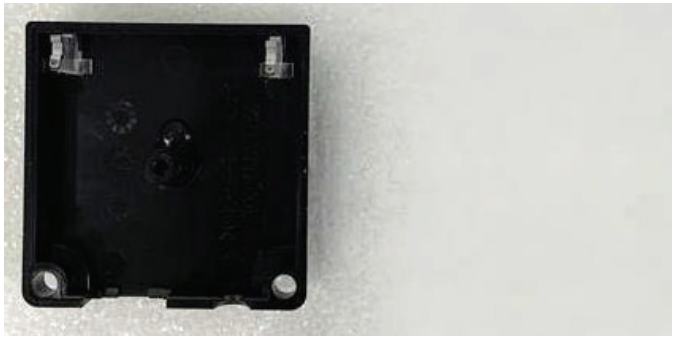
Antenna Appearance:







Installed Equipment Configuration:



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This Report

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- Measurement results of the BLE remote control receiver (ES2) are reported herein.
- Measurement Date: Jun 12, 2026
- Engineer: Miyu Miyagishi
- Responsible: Hiroshi Toyao



Micro-Coaxial Cable
for Measurement



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Measurement Results (VSWR & Radiation Efficiency)

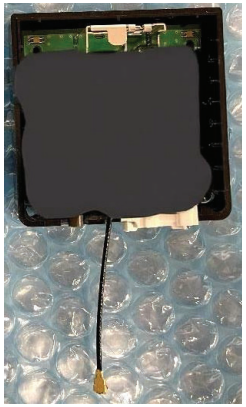
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■ Measurement Model

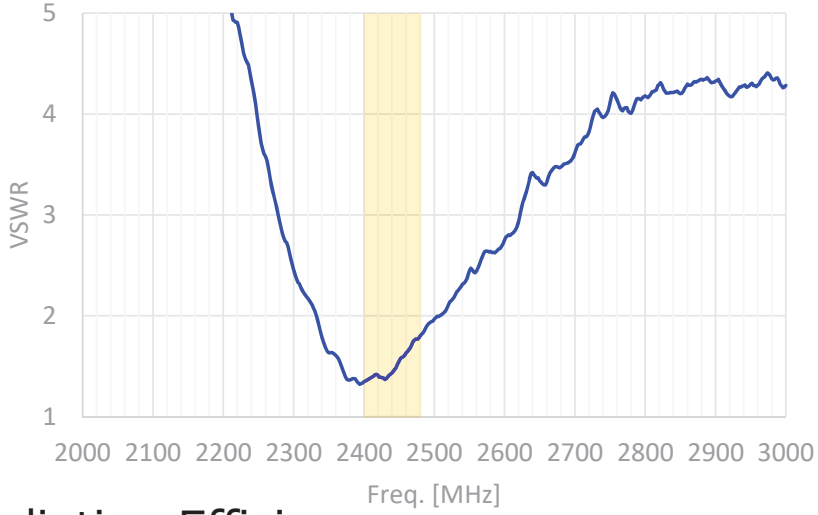
Actual Measurement Configurations



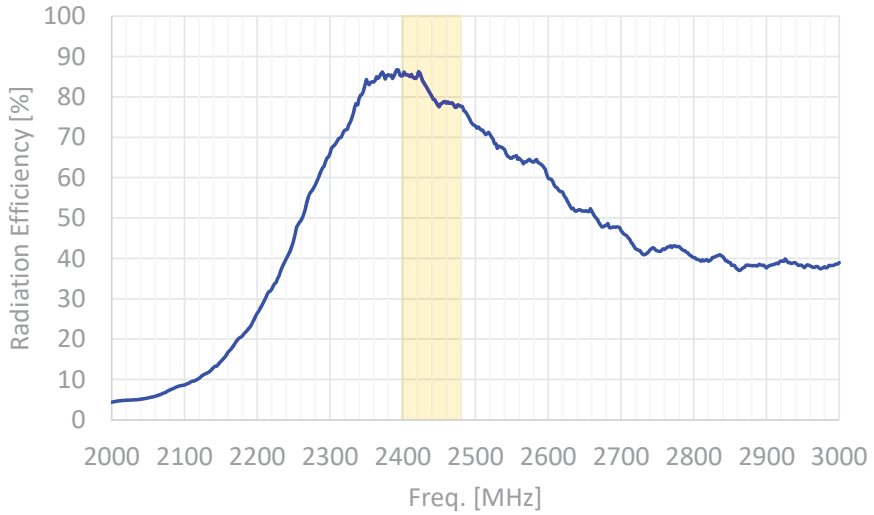
No Cover



■ VSWR



■ Radiation Efficiency



Frequency [MHz]	Radiation Efficiency (%)
2402	86.1
2440	80.1
2480	77.7

*After compensating for cable loss

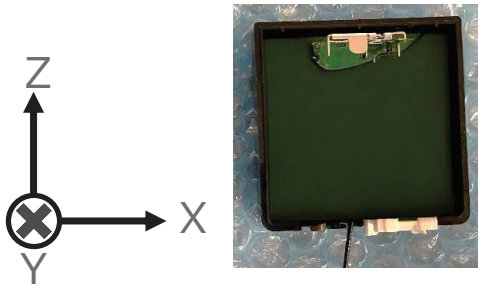
■ Matching Circuit

No changes to the matching constants

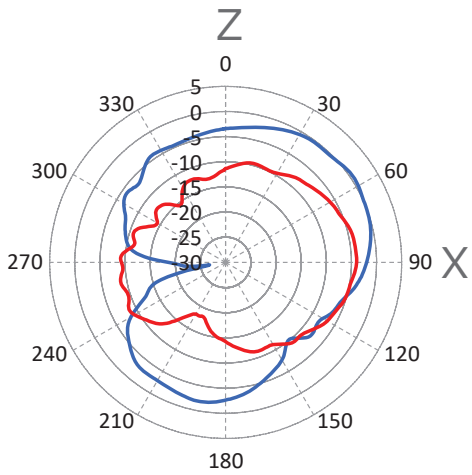
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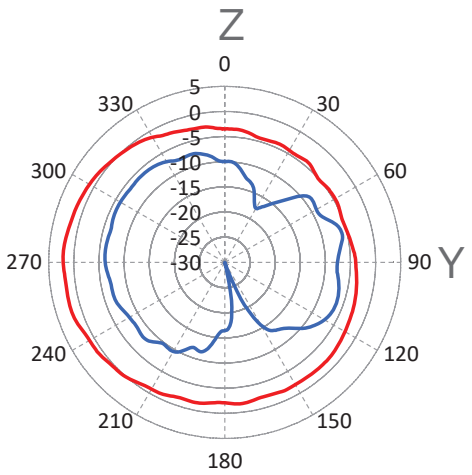
Radiation Pattern - 2402 MHz

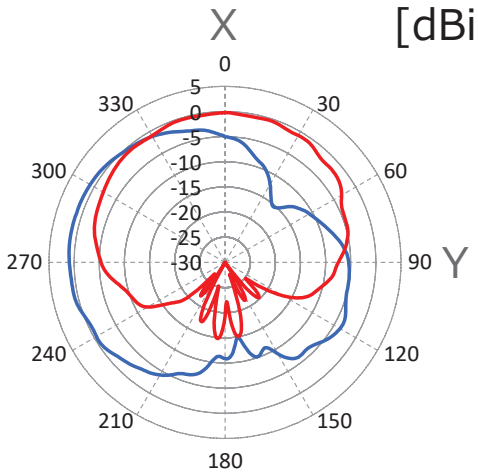
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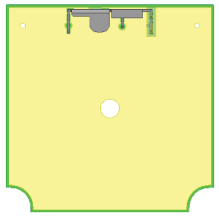


Vertical
Horizontal









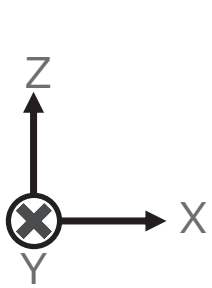




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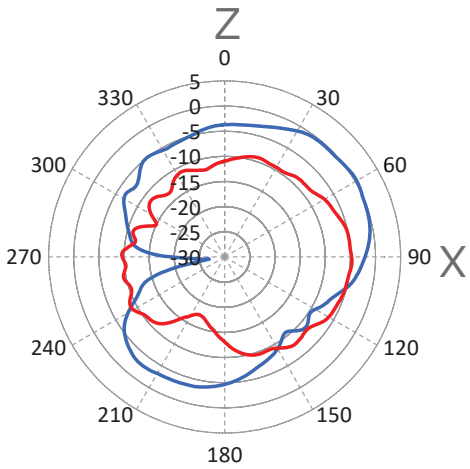
Radiation Pattern - 2440 MHz

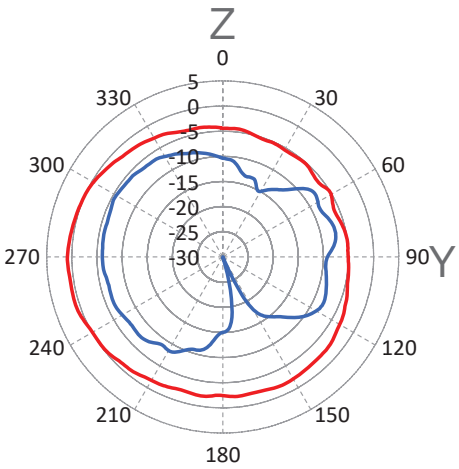
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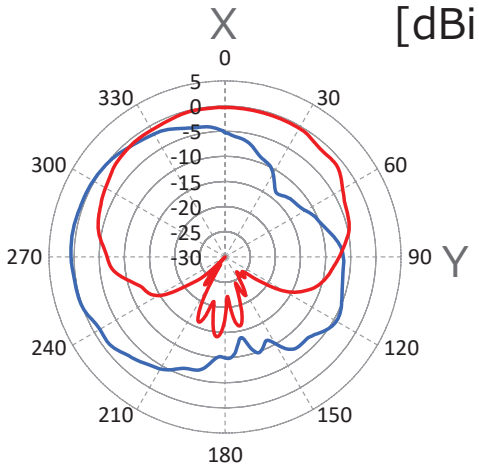


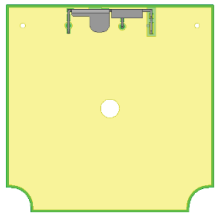


Vertical
Horizontal









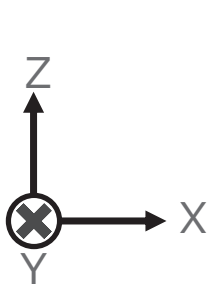




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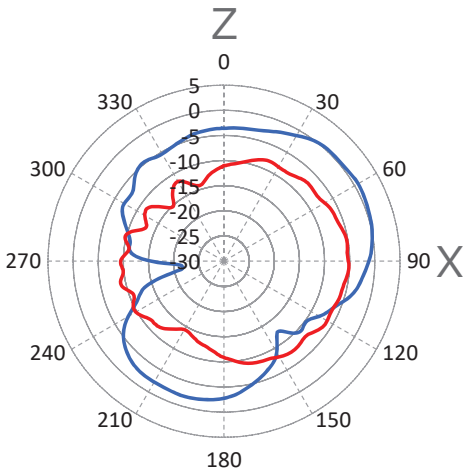
Radiation Pattern - 2480 MHz

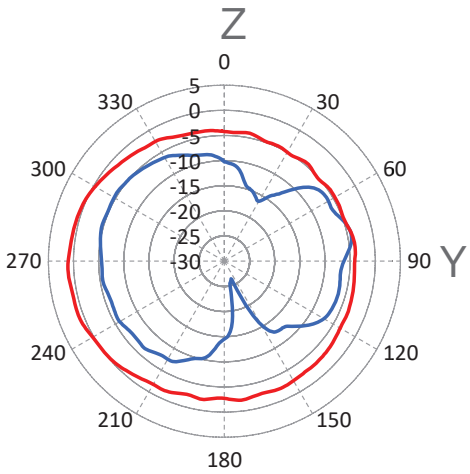
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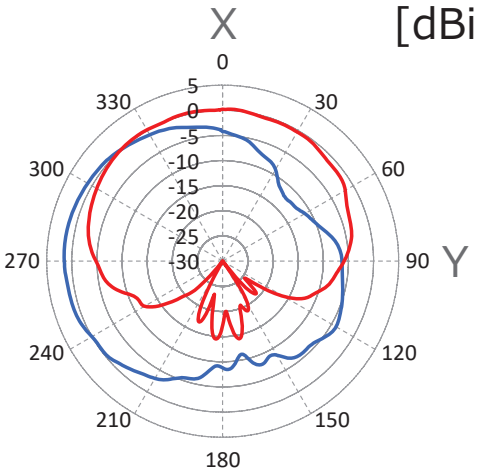


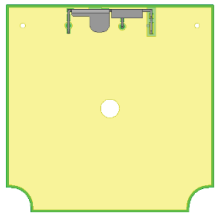


Vertical
Horizontal













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Gain Results

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Freq. [MHz]	Peak Gain [dBi]	Average Gain* [dBi]
2402	2.2	-1.1
2420	2.5	-0.7
2440	0.9	-1.7
2460	1.3	-1.2
2480	1.6	-1.1

*Average gain calculated from three measurement planes

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Test Equipment

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VSWR

No	Equipment Name	Manufacturer	Model Number
1	Network Analyzer	Agilent	E5071B

Radiation Efficiency

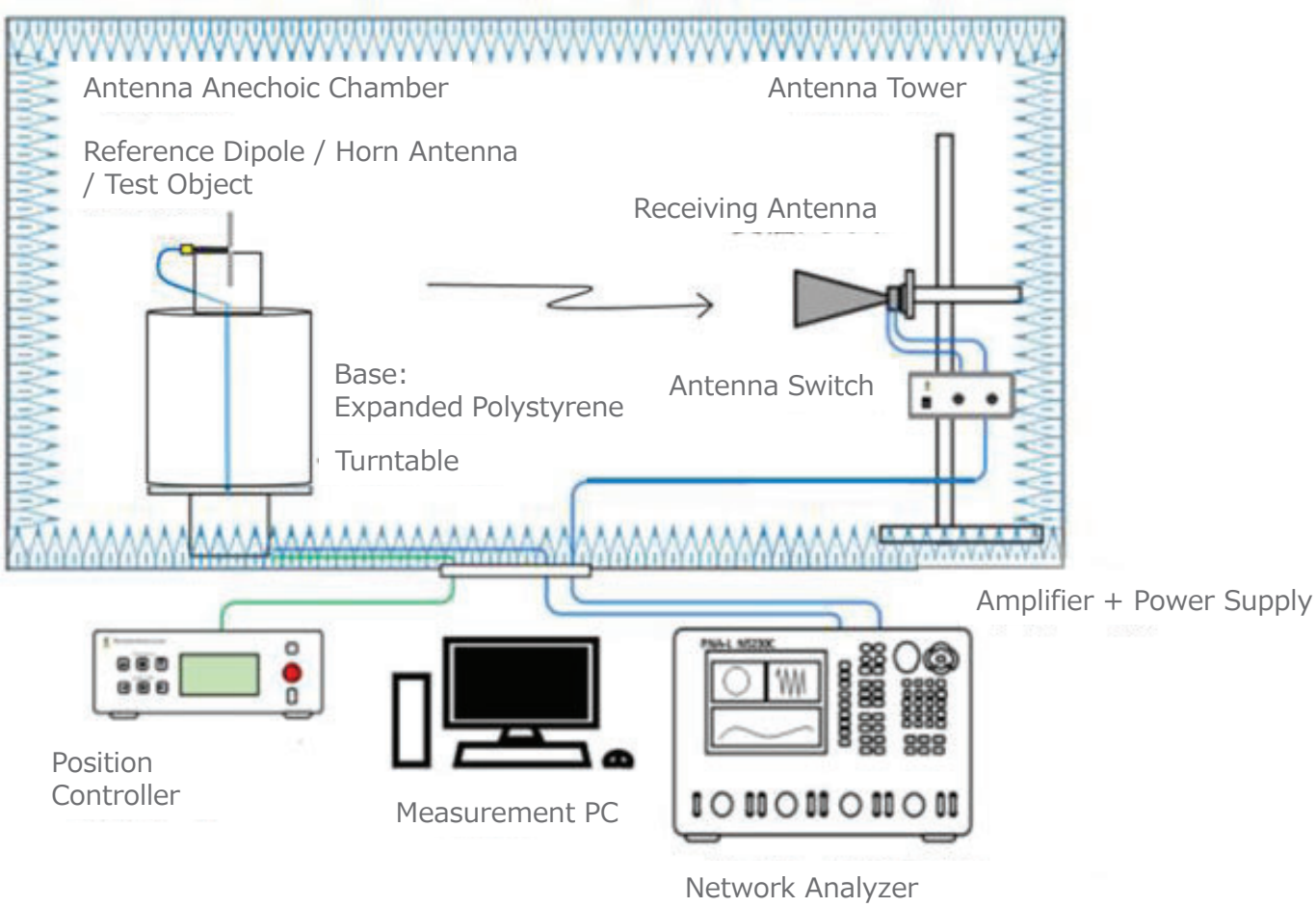
No	Equipment Name	Manufacturer	Model Number
2	Revolution Chamber	Bluetest	RTS65
3	Network Analyzer	KEYSIGHT	E5080B

Pattern/Gain

No	Equipment Name	Manufacturer	Model Number
4	Antenna Anechoic Chamber (4 m, 6-sided)	Techno Science Systems	–
5	Receiving Antenna (Quad-ridged Horn Antenna)	MWF	MQH00706
6	Network Analyzer	Agilent	E5071B

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Measurement Method



Radiation Pattern Measurement Software: Mateos (Microwave Factory Co., Ltd.)

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Manufacturer: Silex Technology, Inc.
Address: 2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto, Japan

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