

Antenna Information

WM323

					DSGD.			
					CHKD.	TITLE		ANT
						WM323		INFORMATION
					APPD.			
SYMB.	DATA OR NO.	APPD.	CHKD.	DSGD.	ALPSALPINE CO.,LTD.			

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1. INFORMATION FOR THE ANTENNA

Manufacturer :

ALPSALPINE CO., LTD.

6-3-36 Furukawanakazato, Osaki-city, Miyagi-pref., 989-6181 Japan

Model Name:

WM323

Frequency range:

2412 - 2472MHz

Antenna Gain:

1.65dBi max

Antenna Type:

Inverted-L Antenna

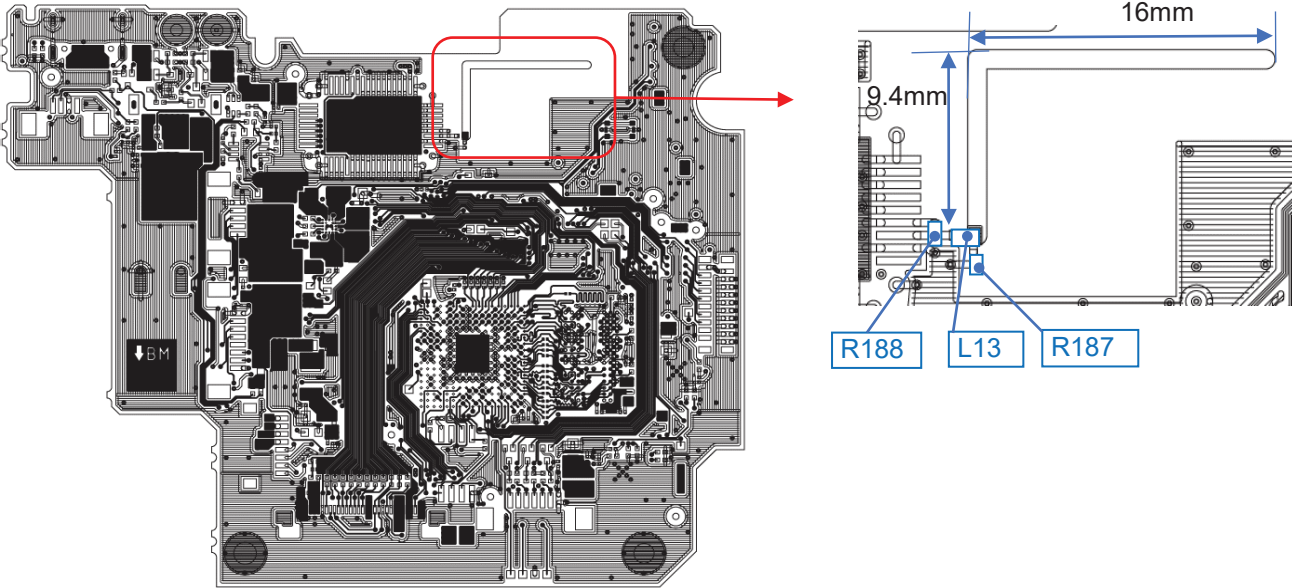
Connector of antenna:

N/A (Printed pattern on the circuit board)

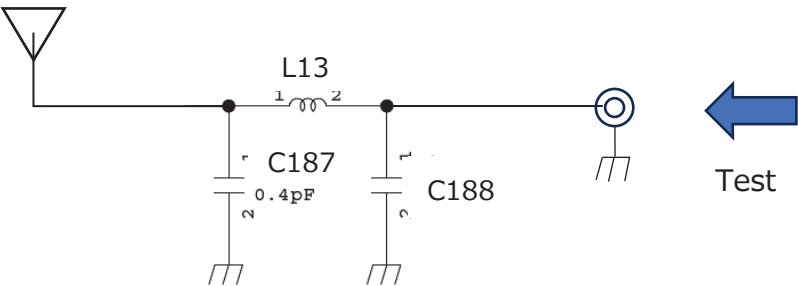
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2. ANTENNA UNDER TEST REPORT

Outline drawing



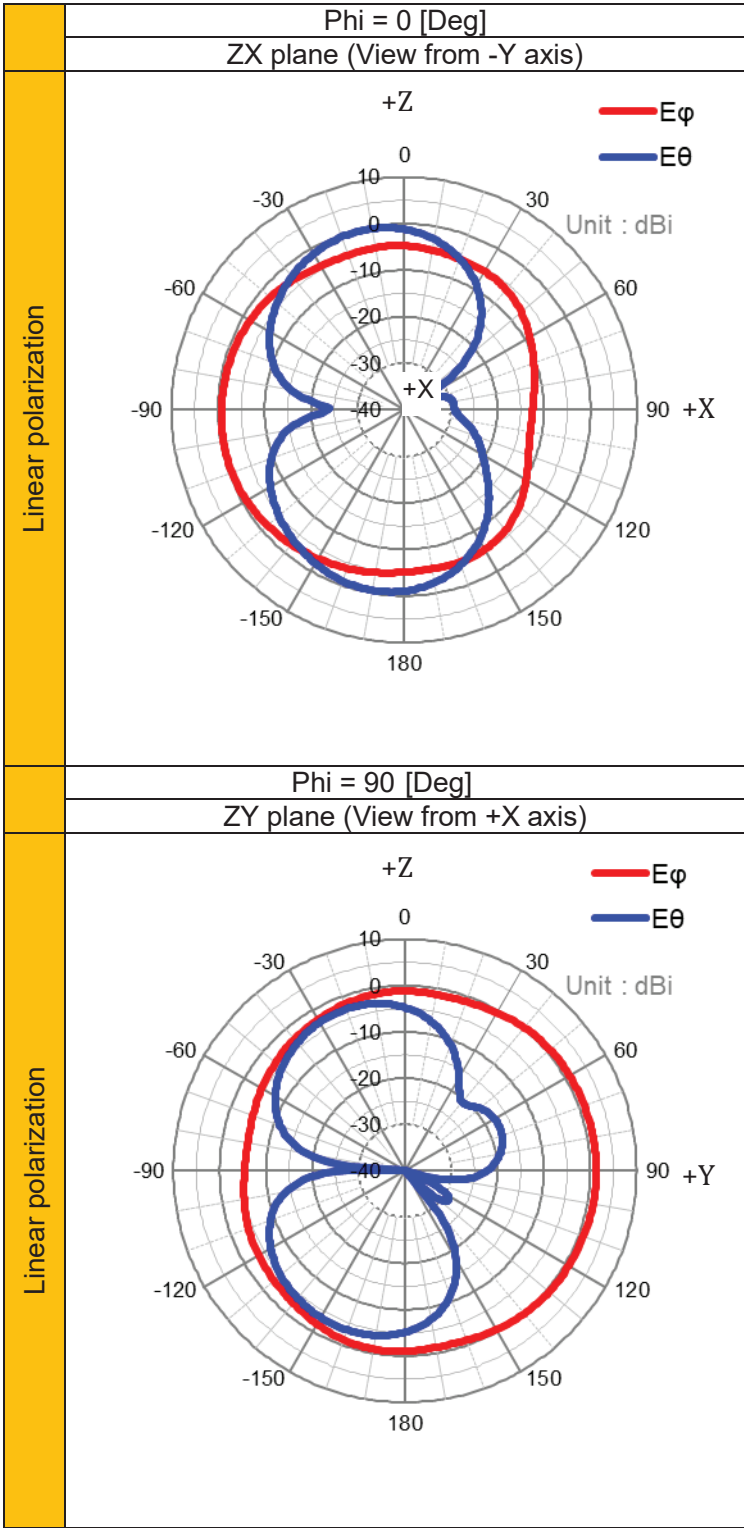
Circuit diagram



Ref.no	Constant	Unit
C187	0.4	pF
L13	4.7	nH
C188	OPEN	pF

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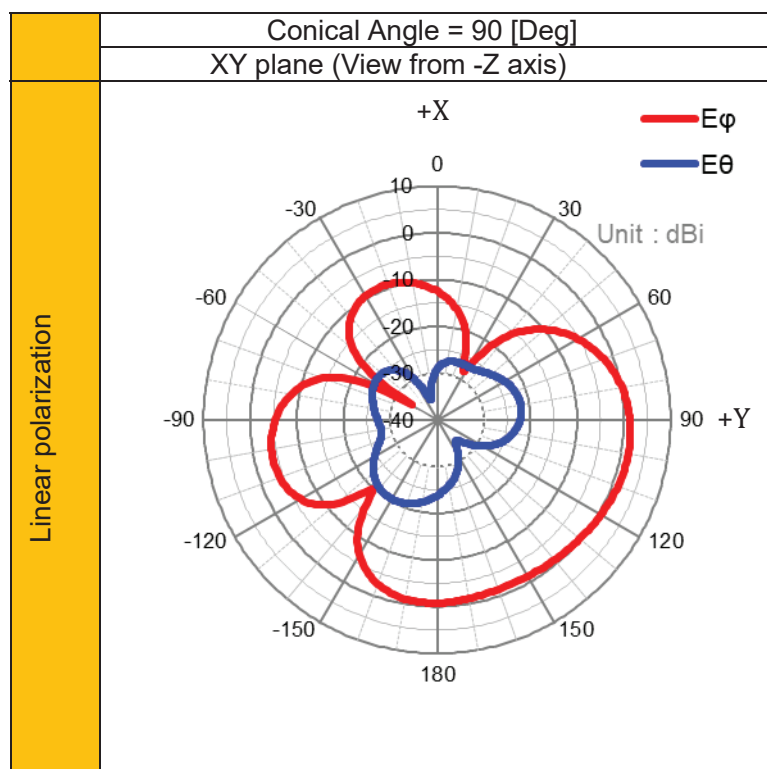
Frequency : 2442MHz



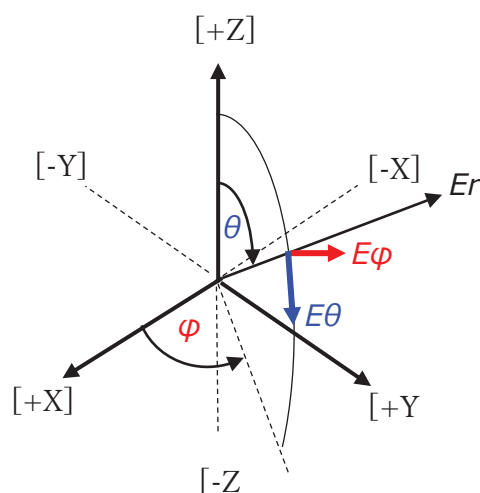
Plane	Gain [dBi]	Polarization	
		Phi(ϕ)	Theta(θ)
Z-X	Max	-0.58	-0.37
	0 deg	-4.75	-1.20

Plane	Gain [dBi]	Polarization	
		Phi(ϕ)	Theta(θ)
Z-Y	Max	1.33	-2.80
	0 deg	-1.20	-4.75

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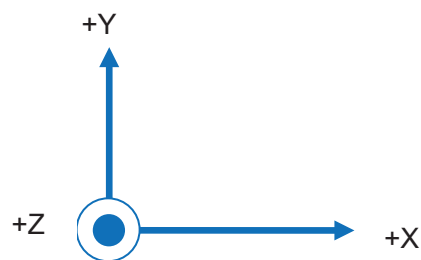
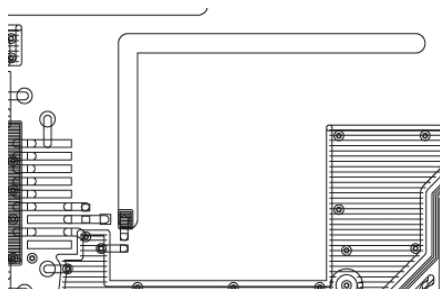
Plane	Gain [dBi]	Polarization	
		Phi(ϕ)	Theta(θ)
X-Y	Max	1.63	-20.47
	0 deg	-12.43	-29.13



Linear Polarization

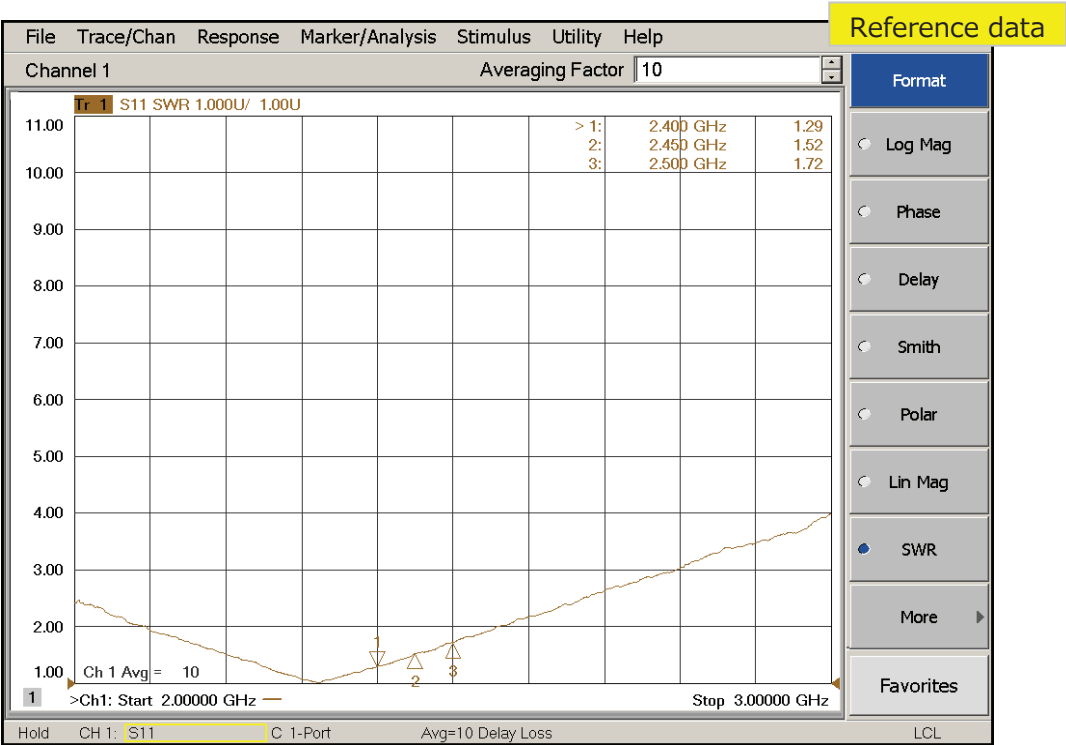
Whole Sphere Gain [dBi]			
Gain	Phi(ϕ)	Theta(θ)	Total
Max	1.63	0.70	1.65
Avg	-4.09	-7.30	-1.83

Measurement Direction for the antenna



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VSWR



Freq[MHz]	2400	2450	2500
VSWR	1.29	1.52	1.72

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3. TEST INFORMATION

Test Equipment	Maker: Microwave Vision Group (MVG) Model Name: SG32 Calibration date: 31.03.2024
Test software	Satenv Ver 2.0.1.3 build47 SatMap Ver 1.3.2.1
Test date	26.04.2024
Test Operator	T. Noguchi

4. TEST METHOD

- 1) Calibration
 - Reference antenna measurement
 - Processing measured Reference Antenna Data
- 2) DUT measurement
 - DUT measurement
 - Processing measured DUT Data

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