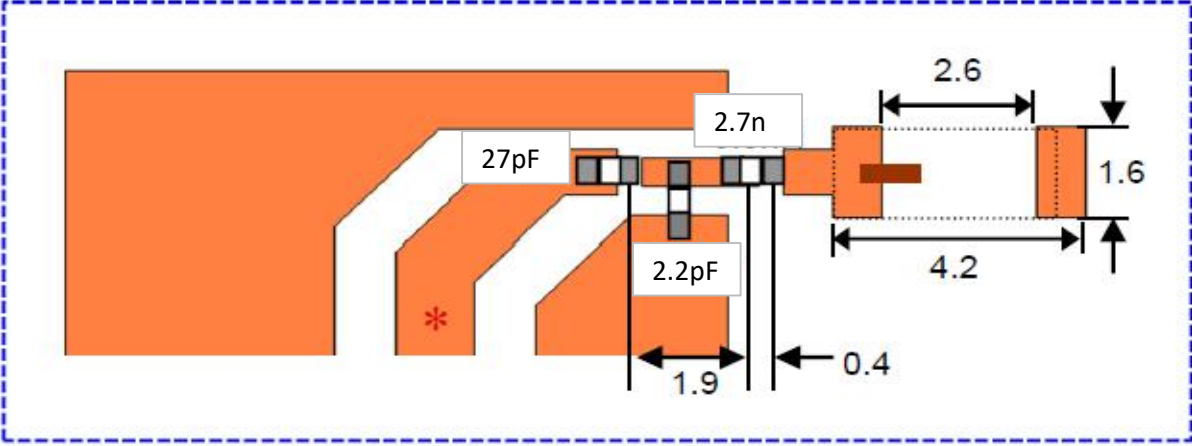
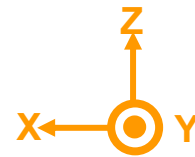
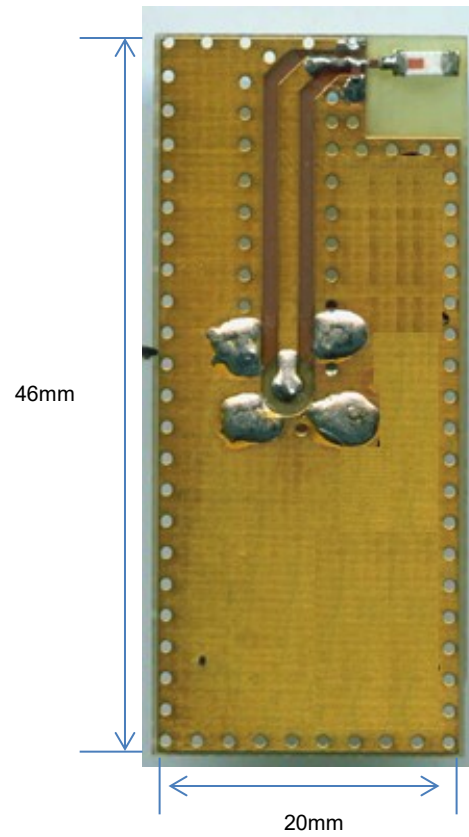


Antenna specification

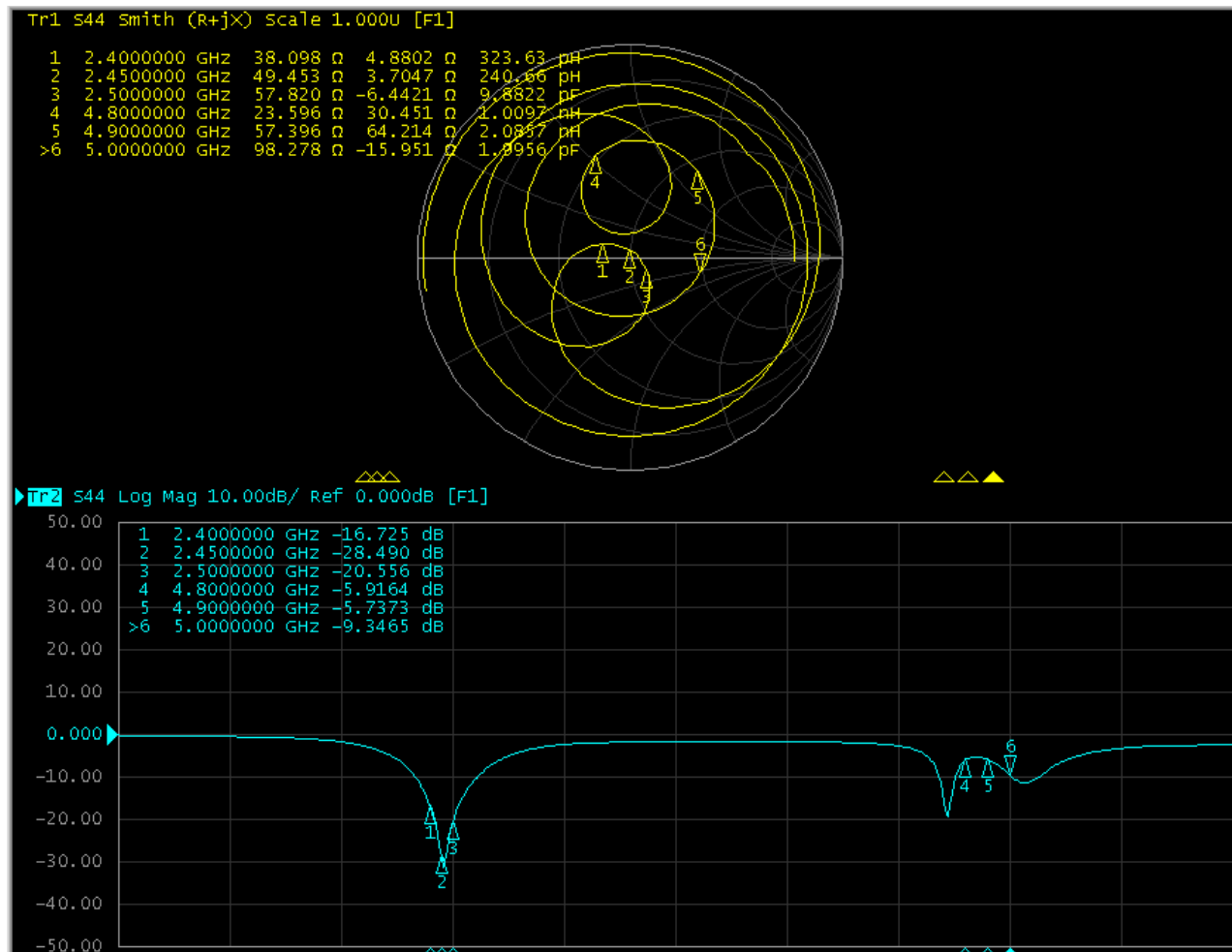
2026/1/27
Shiftall / Masumi FUJITA

Manufacturer name	Johanson Technology, Inc.
Manufacturer address	4001 Calle Tecate, Camarillo, CA. 93012.
Size of the standard antenna pattern	 The diagram shows a top-down view of an antenna layout on a substrate. It features a large orange rectangular area on the left, followed by a series of stepped orange shapes. A red asterisk (*) is located on one of these shapes. To the right of the stepped shapes are two small rectangular components labeled '27pF' and '2.2pF'. Further right is a larger orange rectangular component labeled '2.7n'. To the right of this is a small gap, followed by another orange rectangular component. Dimensions are indicated with arrows: a horizontal distance of 1.9 from the bottom of the '2.2pF' component to the start of the '2.7n' component; a horizontal distance of 0.4 from the bottom of the '2.7n' component to the start of the next component; a horizontal distance of 4.2 from the bottom of the '2.7n' component to the start of the final component; a horizontal distance of 2.6 from the top of the '2.7n' component to the start of the final component; and a vertical distance of 1.6 from the top of the '2.7n' component to the top of the final component. The entire layout is enclosed in a dashed blue rectangular border.

2450AT18B100

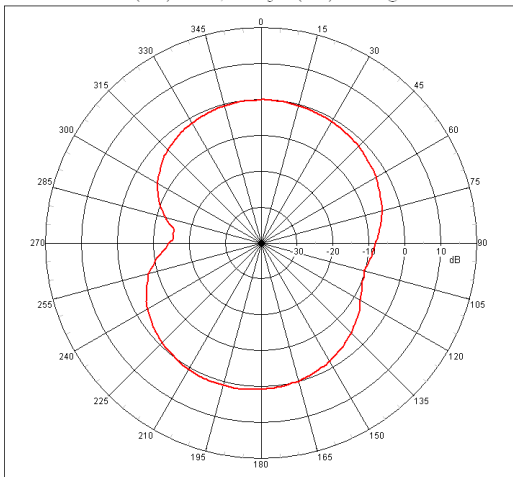


Return Loss measurement of 2450AT18B100



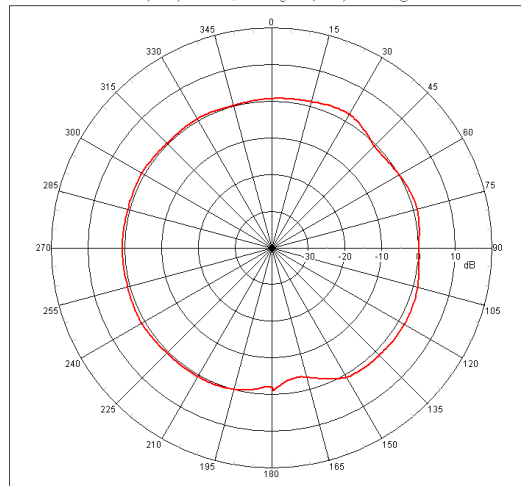
2450AT18B100_2D Gain Pattern @ 2.402GHz

Far-field Power Distribution(Total) on X-Y Plane
Plot Peak Gain(Total)= 1.0 dBi; Plot AvgGain(Total)= -3.1dBi @2.40200 GHz



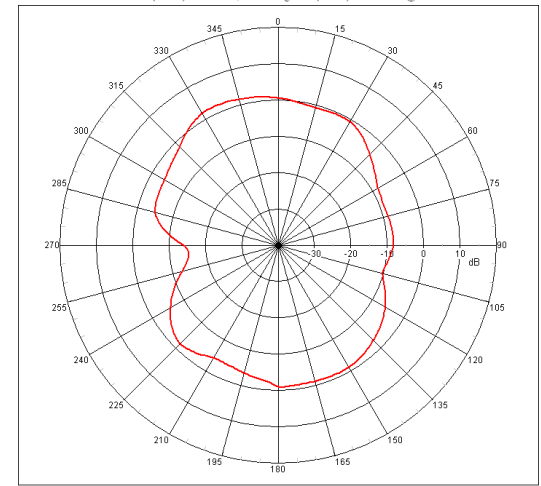
	Peak gain	Avg. gain
XY-plane	1.0	-3.1

Far-field Power Distribution(Total) on X-Z Plane
Plot Peak Gain(Total)= 2.1 dBi; Plot AvgGain(Total)= 0.4dBi @2.40200 GHz



	Peak gain	Avg. gain
XZ-plane	2.1	0.4

Far-field Power Distribution(Total) on Y-Z Plane
Plot Peak Gain(Total)= 2.1 dBi; Plot AvgGain(Total)= -3.5dBi @2.40200 GHz

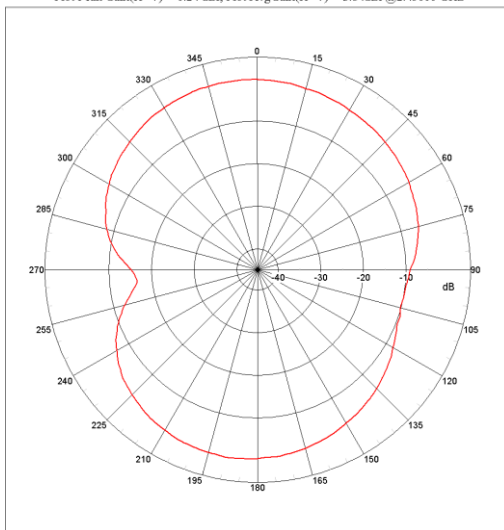


	Peak gain	Avg. gain
YZ-plane	2.1	-3.5

2450AT18B100_2D Gain Pattern @ 2.45GHz

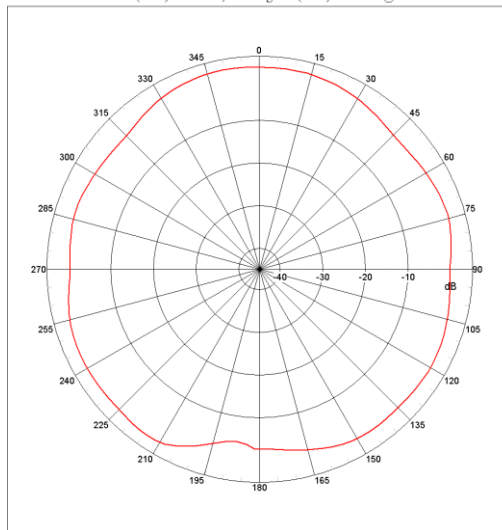
Far-field Power Distribution(H+V) on X-Y Plane

Plot Peak Gain(H+V)= -0.24 dBi; Plot AvgGain(H+V)= -3.84dBi @2.45000 GHz



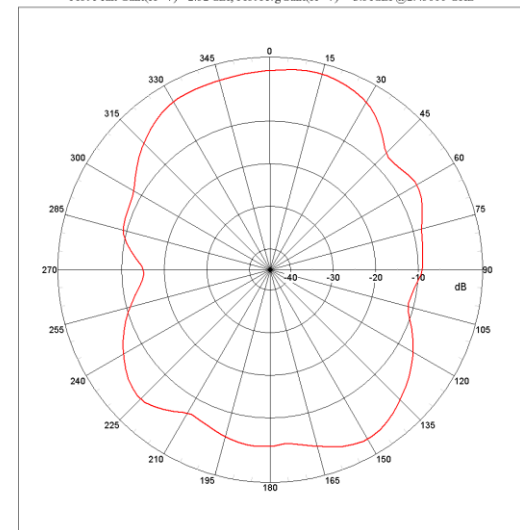
Far-field Power Distribution(H+V) on X-Z Plane

Plot Peak Gain(H+V)= 2.47 dBi; Plot AvgGain(H+V)= 0.53dBi @2.45000 GHz



Far-field Power Distribution(H+V) on Y-Z Plane

Plot Peak Gain(H+V)= 2.52 dBi; Plot AvgGain(H+V)= -3.51dBi @2.45000 GHz



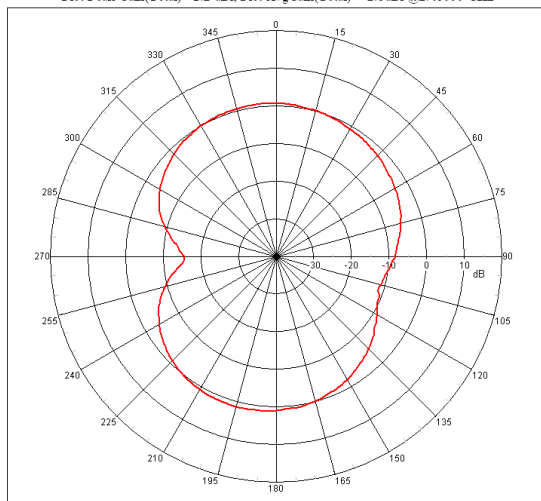
	Peak gain	Avg. gain
XY-plane	-0.2	-3.8

	Peak gain	Avg. gain
XZ-plane	2.5	0.5

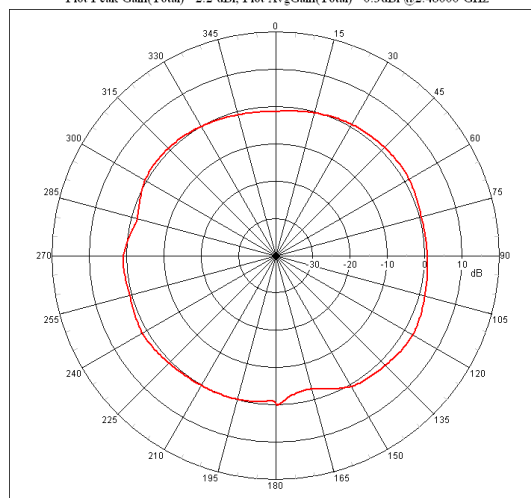
	Peak gain	Avg. gain
YZ-plane	2.5	-3.5

2450AT18B100_2D Gain Pattern @ 2.48GHz

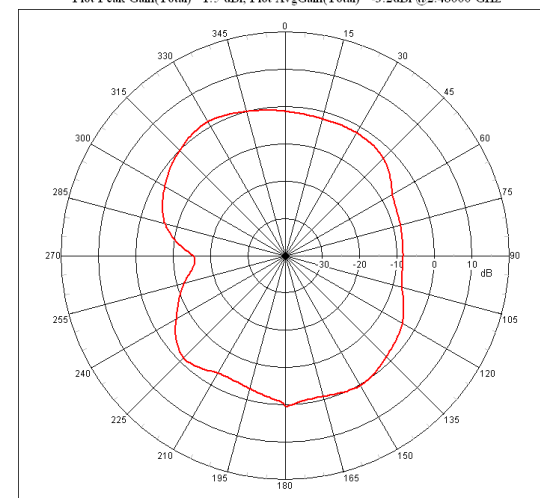
Far-field Power Distribution(Total) on X-Y Plane
Plot Peak Gain(Total)= 1.2 dBi; Plot AvgGain(Total)= -2.8dBi @2.48000 GHz



Far-field Power Distribution(Total) on X-Z Plane
Plot Peak Gain(Total)= 2.2 dBi; Plot AvgGain(Total)= 0.3dBi @2.48000 GHz



Far-field Power Distribution(Total) on Y-Z Plane
Plot Peak Gain(Total)= 1.5 dBi; Plot AvgGain(Total)= -3.2dBi @2.48000 GHz



	Peak gain	Avg. gain
XY-plane	1.2	-2.8

	Peak gain	Avg. gain
XZ-plane	2.2	0.3

	Peak gain	Avg. gain
YZ-plane	1.5	-3.2

Frequency (GHz)	XY-plane (Theta=90)		XZ-plane (Phi=0)		YZ-plane (Phi=90)		Efficiency (%)
	Peak Gain (dBi)	Avg. Gain (dBi)	Peak Gain (dBi)	Avg. Gain (dBi)	Peak Gain (dBi)	Avg. Gain (dBi)	
2.402	1.0	-3.1	2.1	0.4	2.1	-3.5	75
2.45	-0.2	-3.8	2.5	0.5	2.5	-3.5	76.4
2.480	1.2	-2.8	2.2	.03	1.5	-3.2	77

