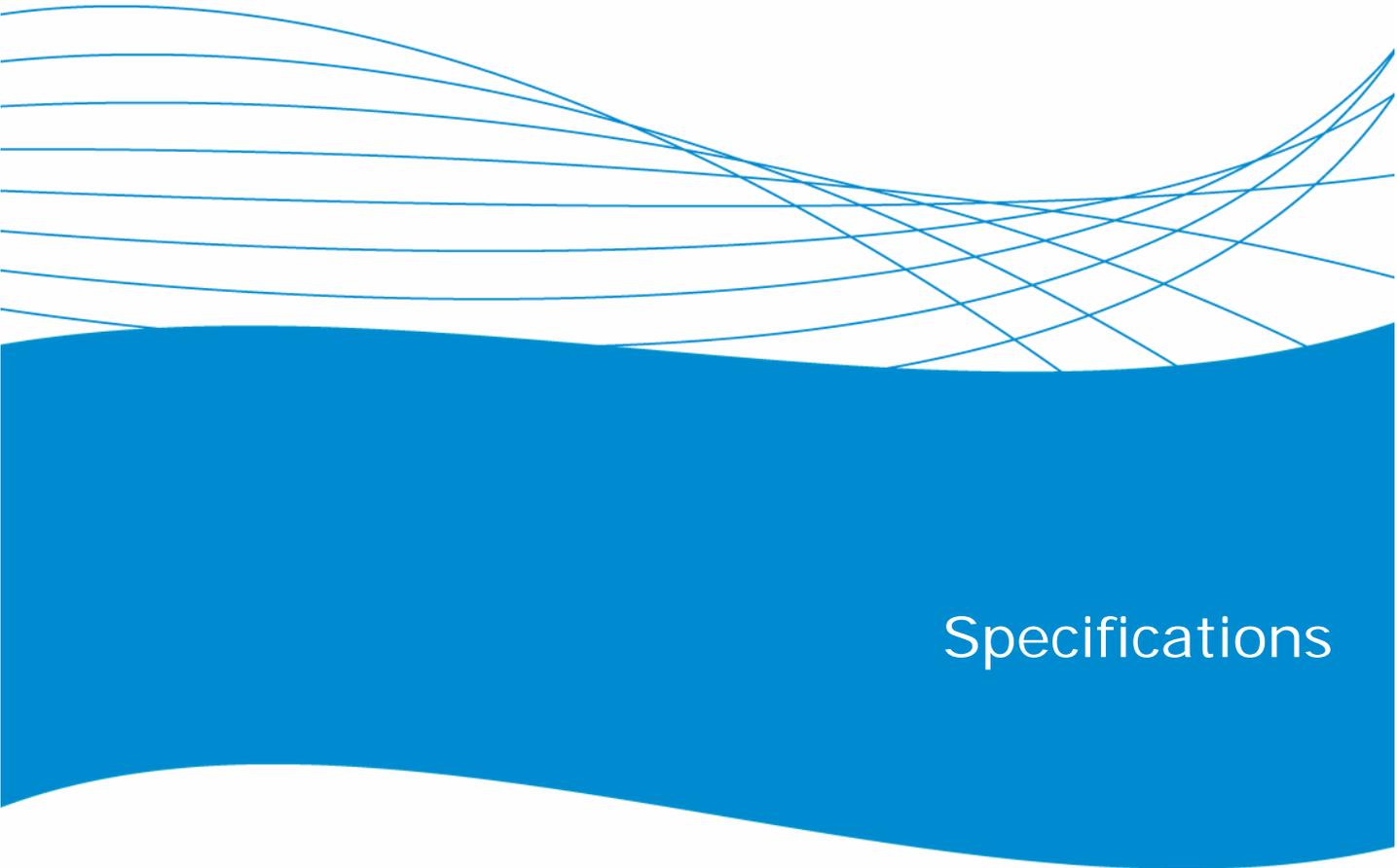


J8997A

3 dBi dual-band Diversity Antenna



Specifications

Table of Contents – J8997A

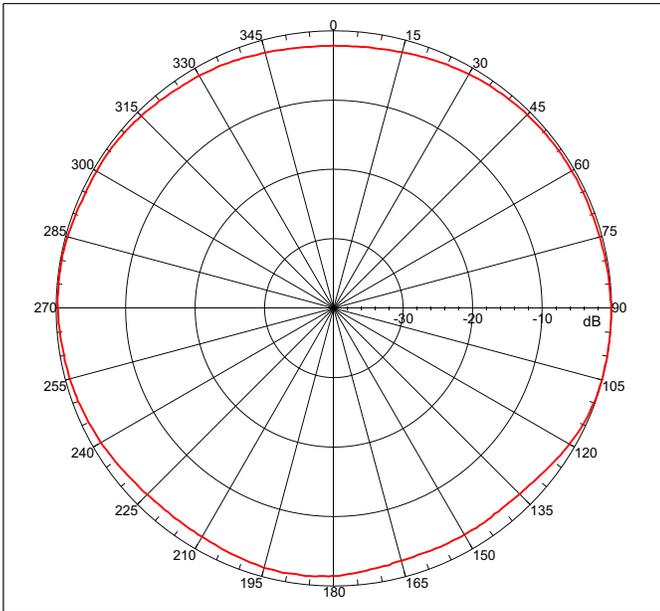
Technical Specifications.....3
Radiation Patterns4
Illustration & Mounting..... 10

Antenna Specifications – J8997A

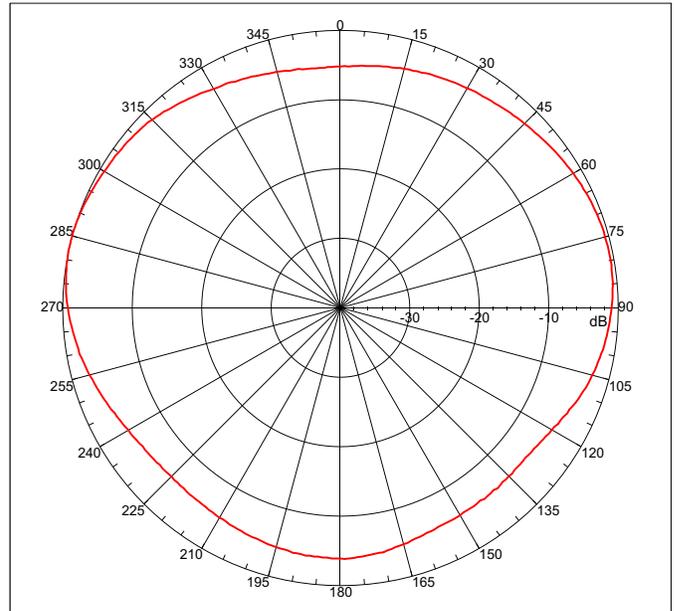
Item	Specification
HP Product Number	J8997A
Cushcraft Part Number	S24493DSH33RSM
Frequency (MHz)	2400-2500 / 4900-5990
Gain w/specified cable (dBi)	3 / 4
VSWR max	2.0:1
E-Plane (3dB beamwidth)	60° / 58°
H-Plane (3dB beamwidth)	Omnidirectional
Polarization	Linear (vertical)
Impedance (Ohms)	50
Weight lb. (kg)	0.5 (0.23)
Front to back ratio (dB)	N/A
Dimensions in. (cm)	6.16 x 3.66 (15.6 x 9.3)
Height in. (cm)	0.89 (2.26)
Mounting Style	Ceiling grid
Wind Surface Area ft ² (m ²)	N/A
Wind Survival mph (km/hr)	N/A
Enclosure	PVC / Acrylic
RF Connector	Rev. SMA (m)
Pigtail	33-inch CMP Plenum
Storage Temperature (min/max)	-40° to +65°C
Operating Temperature (min/max)	-30° to +55°C

S24493DS

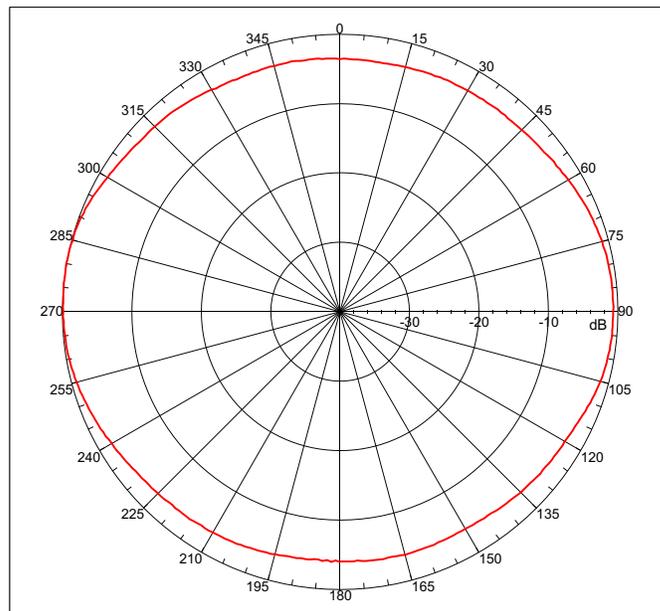
S24493DS
Port 1 H Plane 2.4 GHz



S24493DS
Port 1 H Plane 2.45 GHz

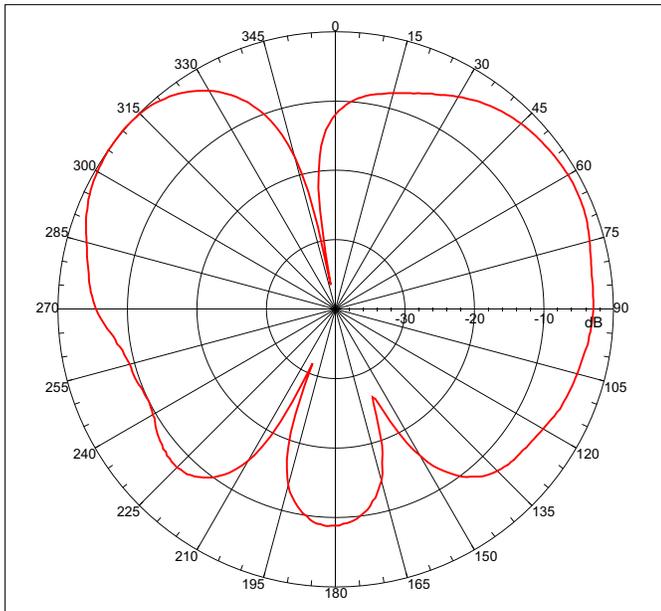


S24493DS
Port 1 H Plane 2.5 GHz

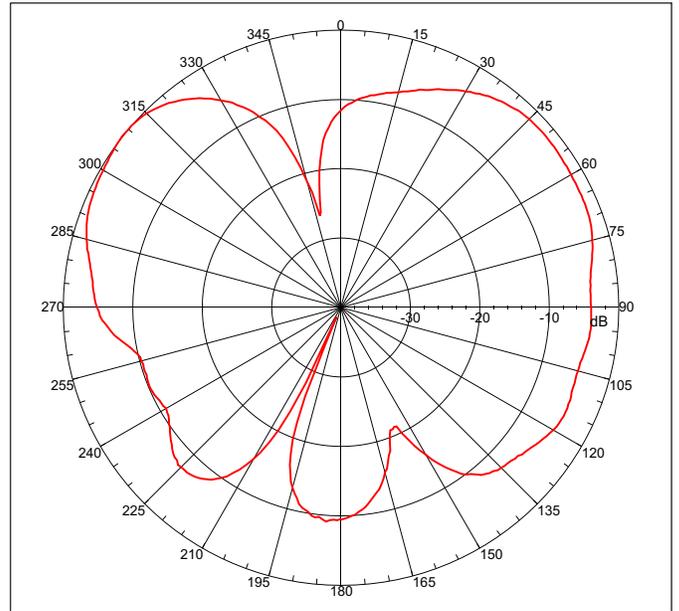


S24493DS

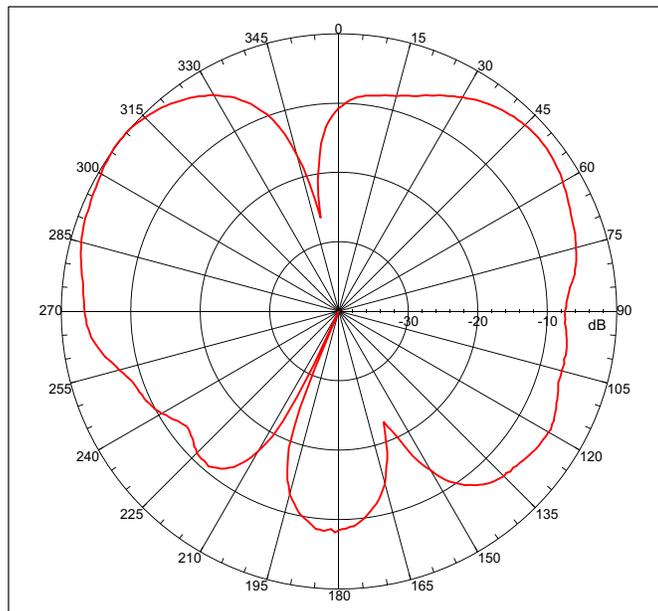
S24493DS
Port 1E90 Plane 2.4GHz



S24493DS
Port 1E90 Plane 2.45 GHz

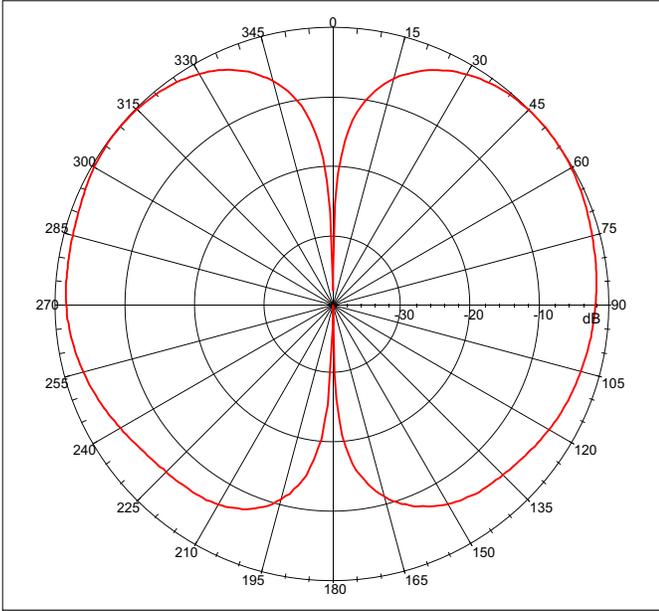


S24493DS
Port 1E90 Plane 2.5 GHz

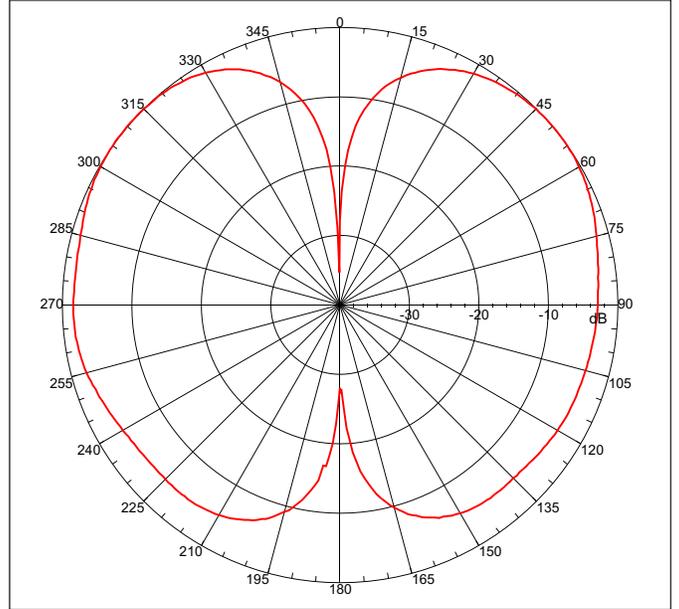


S24493DS

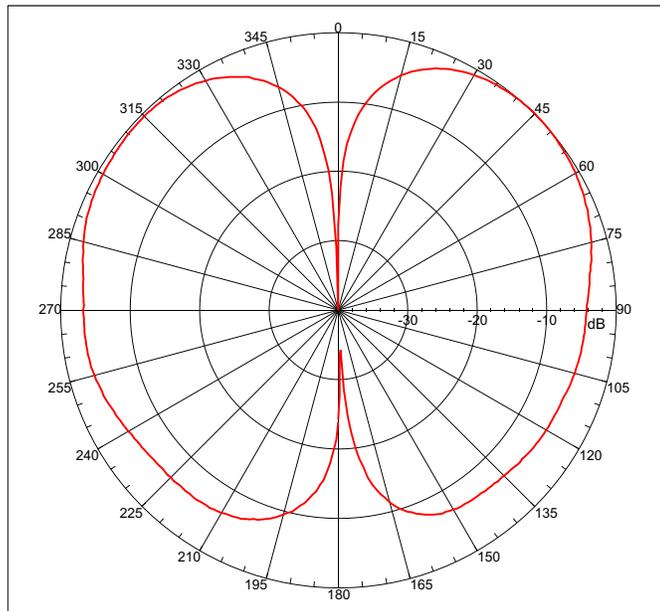
S24493DS
Port 1E0 Plane 2.4 GHz



S24493DS
Port 1E0 Plane 2.45 GHz

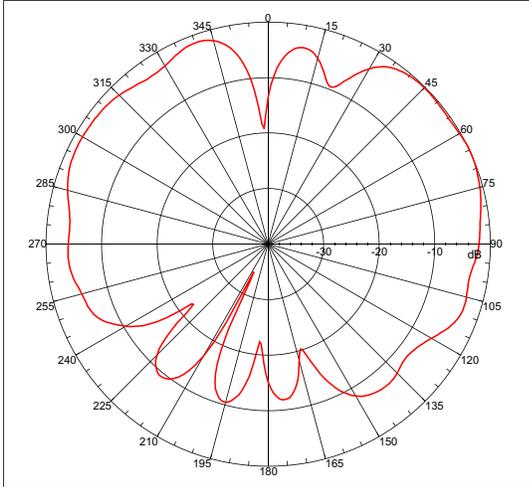


S24493DS
Port 1E0 Plane 2.5 GHz

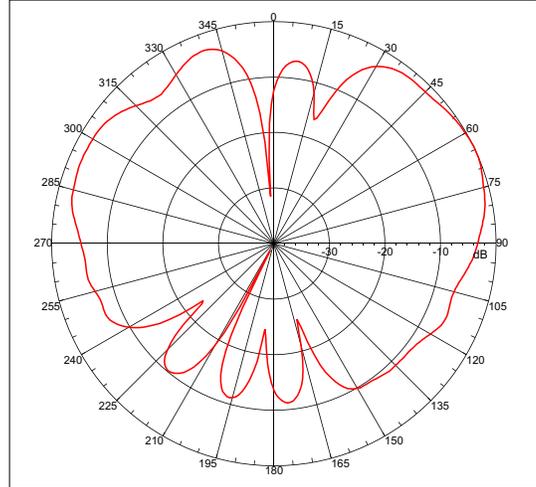


S24493DS

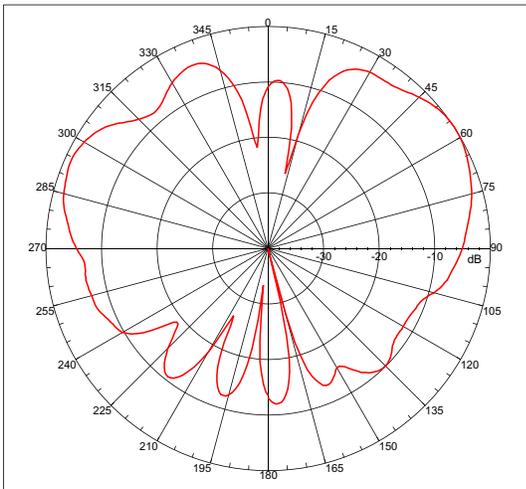
S24493DS
Port 1 E90 Plane 4.9 GHz



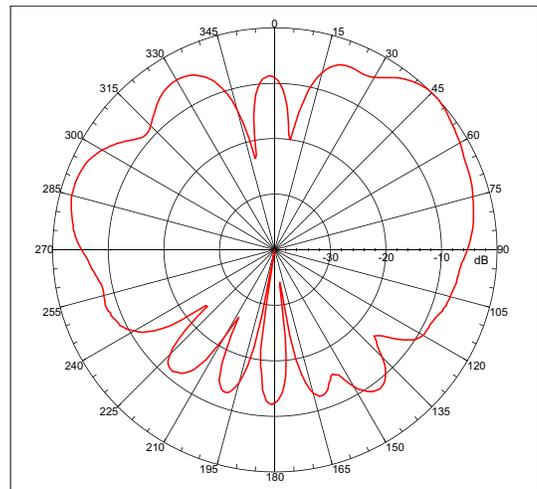
S24493DS
Port 1 E90 Plane 5.15 GHz



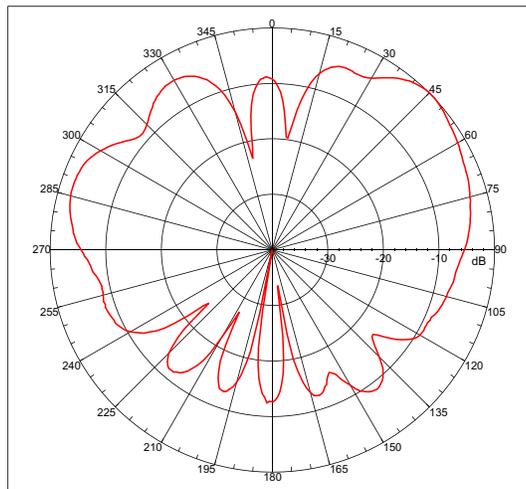
S24493DS
Port 1 E90 Plane 5.50 GHz



S24493DS
Port 1 E90 Plane 5.99 GHz

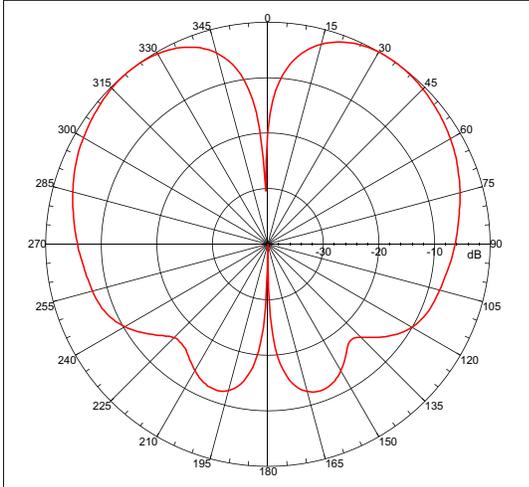


S24493DS
Port 1 E90 Plane 6 GHz

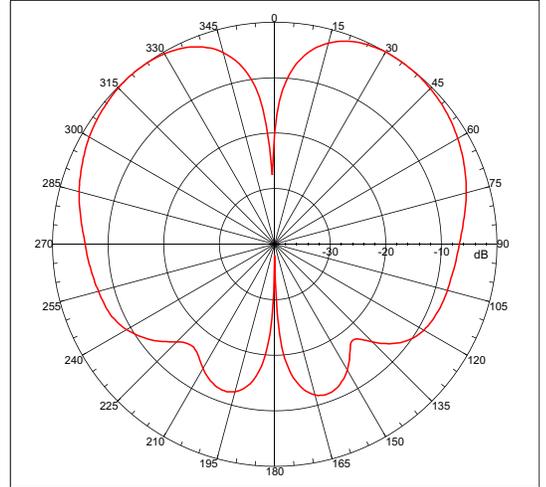


S24493DS

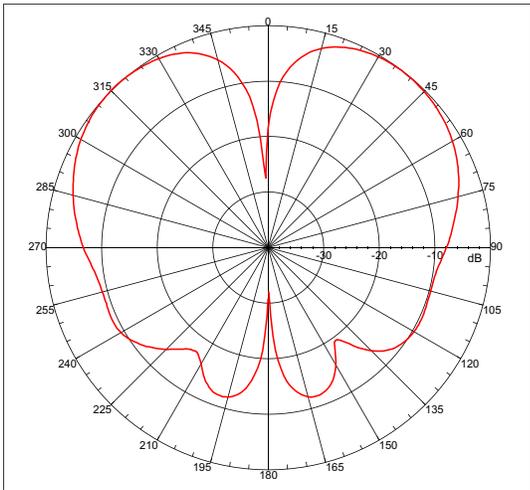
S24493DS
Port 1 E0 Plane 4.9 GHz



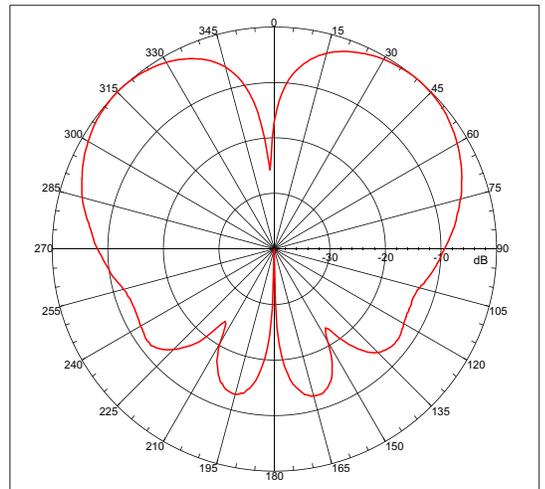
S24493DS
Port 1 E0 Plane 5.15 GHz



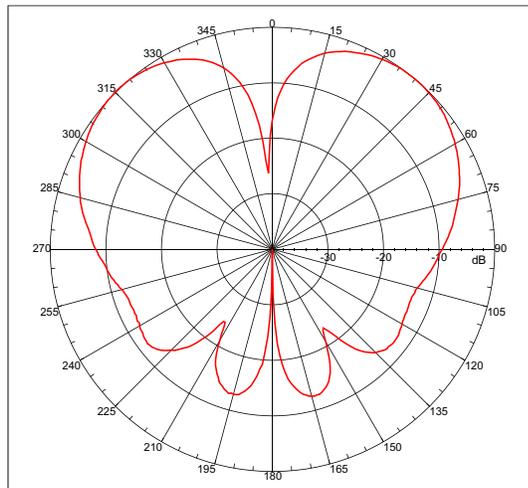
S24493DS
Port 1 E0 Plane 5.5 GHz



S24493DS
Port 1 E0 Plane 5.99 GHz

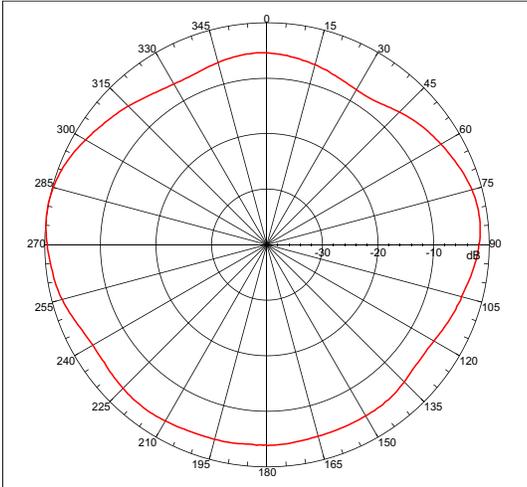


S24493DS
Port 1 E0 Plane 6 GHz

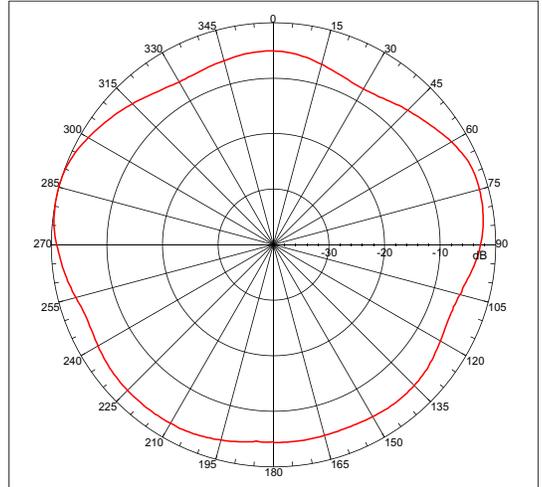


S24493DS

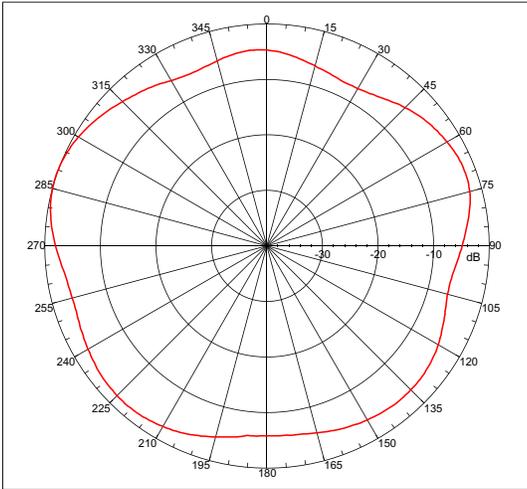
S24493DS
Port 1 H Plane 4.9 GHz



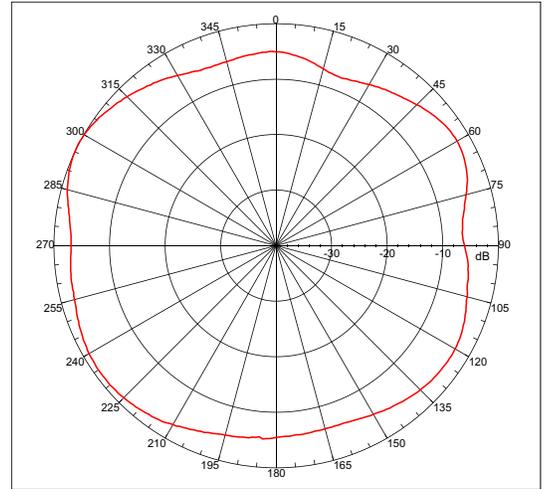
S24493DS
Port 1 H Plane 5.15 GHz



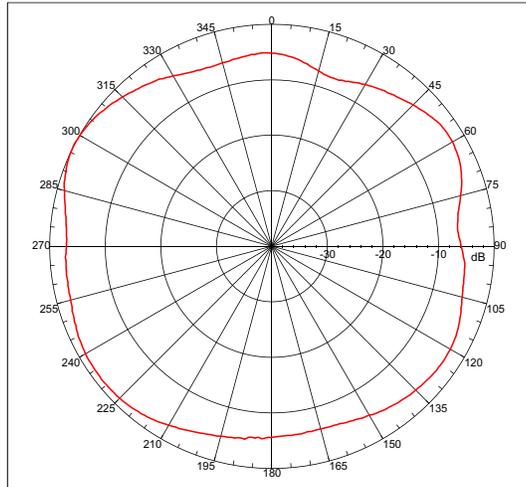
S24493DS
Port 1 H Plane 5.50 GHz



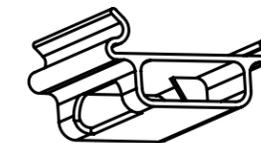
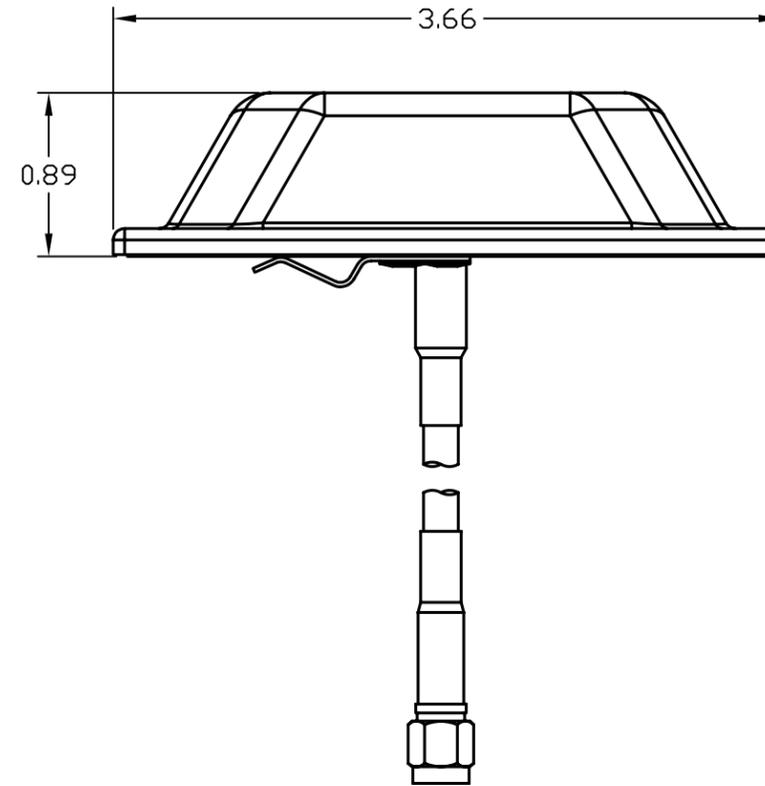
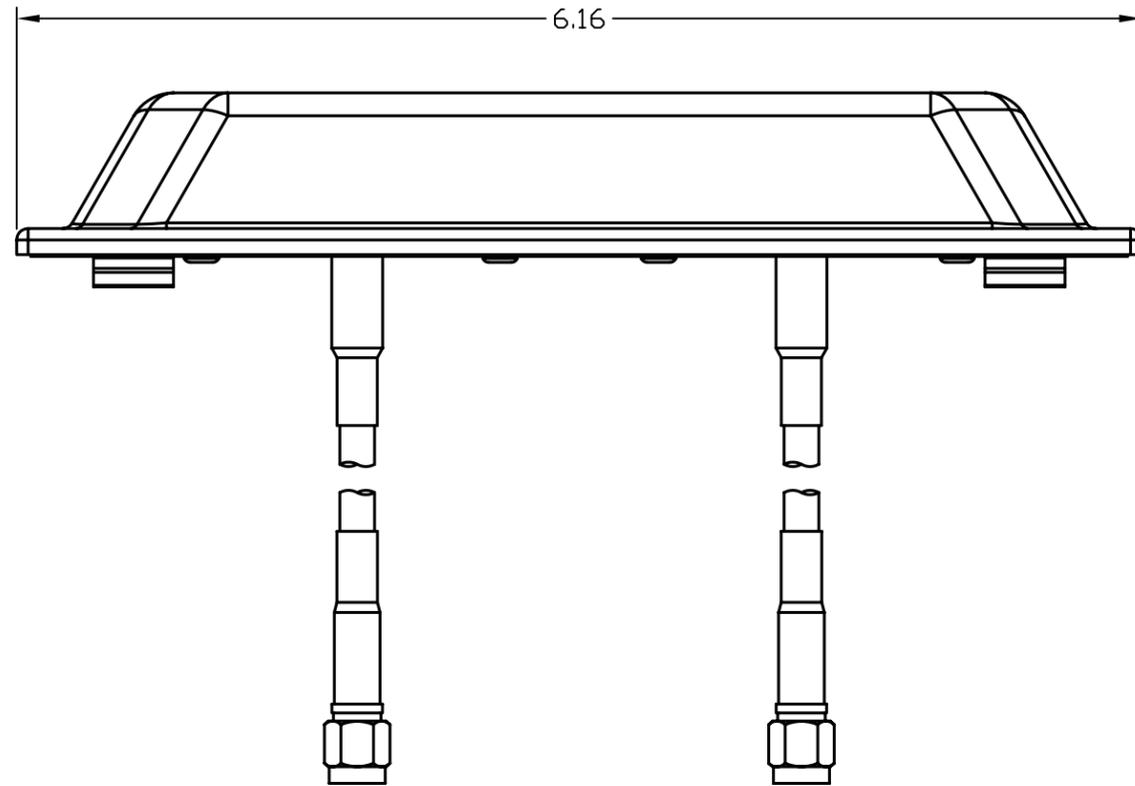
S24493DS
Port 1 H Plane 5.99 GHz



S24493DS
Port 1 H Plane 6 GHz



REVISION			
LTR	DESCRIPTION	DATE	INITIAL
AA	ORIGINAL	9-9-05	SWJ



(SCALE 1:1)

RECESSED TILE
ADAPTER CLIP

PARAMETER	PERFORMANCE	
Model Number	S24493DSH33RSM	
HP Part Number	J8997A	
Frequency	2.4-2.5 GHz & 4.90-5.99 GHz	
Gain (w/33" cable)	2.4-2.5 GHz	4.90-5.99 GHz
	3.0 dBi (nominal)	4.0 dBi (nominal)
Polarization	2.4-2.5 GHz	4.90-5.99 GHz
	Linear Vert.	Linear Vert.
VSWR	2.4-2.5 GHz	4.90-5.99 GHz
	2.0:1	2.0:1
E-Plane 3 dB Beamwidth	2.4-2.5 GHz	4.90-5.99 GHz
	60 deg.	58 deg.
H-Plane 3 dB Beamwidth	2.4-2.5 GHz	4.90-5.99 GHz
	Omnidirectional	Omnidirectional
Cable Length	33"	
RF Connectors	Reverse SMA (m)	
Power	2 WATTS	
Antenna Weight	.5 lbs	
Radome Color	WHITE	
Mounting	Ceiling Clips	

MATERIAL:

DRAWN
S JOHNSON

DATE
9-9-05

ENGINEER
J MORROW

DATE
9-9-05

ENGINEERING MGR
A ALEVY

DATE
9-12-05

FINISH:

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE:

ANGLES ±2 °
FRACTIONS ±1/16"
.XX ±0.030"
.XXX ±0.015"

CUSHCRAFT
48 PERIMETER ROAD MANCHESTER NH. 03108

TITLE:
**S24493DSH33RSM
MOUNTING & OUTLINE**

DRAWING NO.
S24493DSH33RSMMO

REV
AA

SCALE 1:1 SIZE B SHEET 1 OF 1

CONFIDENTIAL
© 2005, Cushcraft Corporation. Information contained in this document is of a proprietary and/or legally privileged nature. It may not be reproduced without express written permission of Cushcraft Corporation, Manchester, NH.