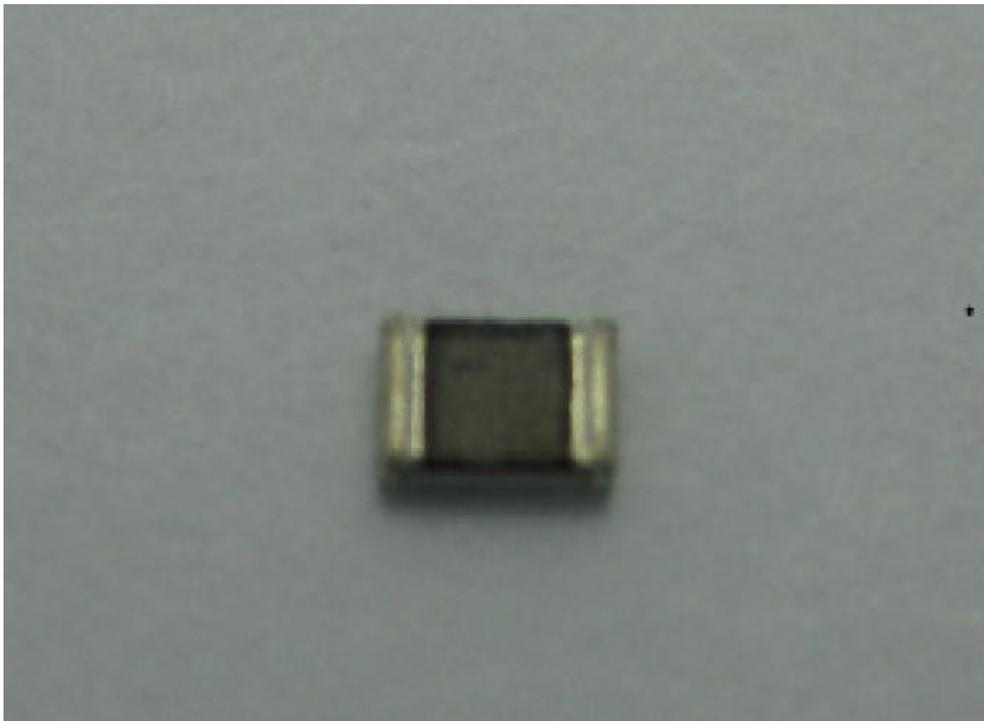


Embedded Ceramic Antenna Bluetooth/WIFI 2.4 GHz ANT-BXE9533



Antenna provides compelling advantages for Bluetooth enabled cell phones, media players and other mobile devices.

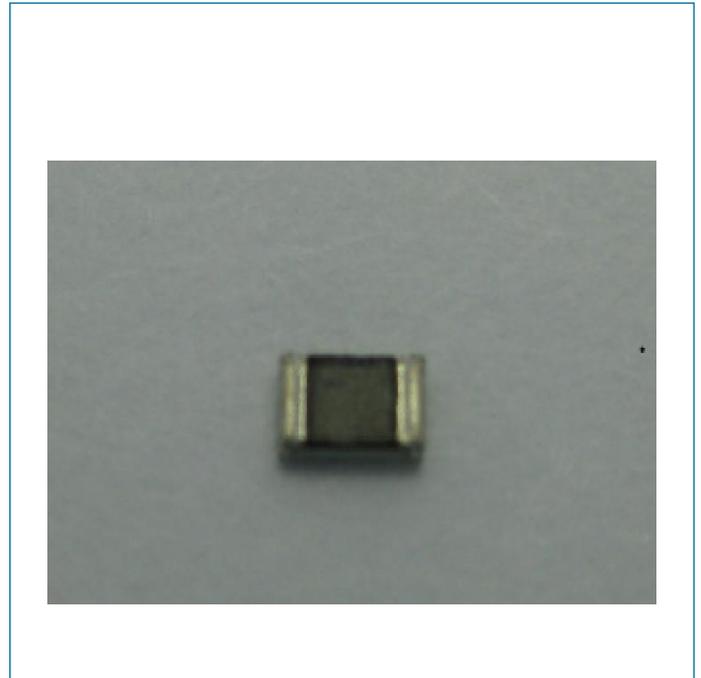
Technical Data - ANT-BXE9533

W-LAN/BT Specifications

Frequency	2.4 - 2.5 GHz
Gain	1.72 dBi
VSWR	< 3
Polarization	linear
Impedance	50 Ohm

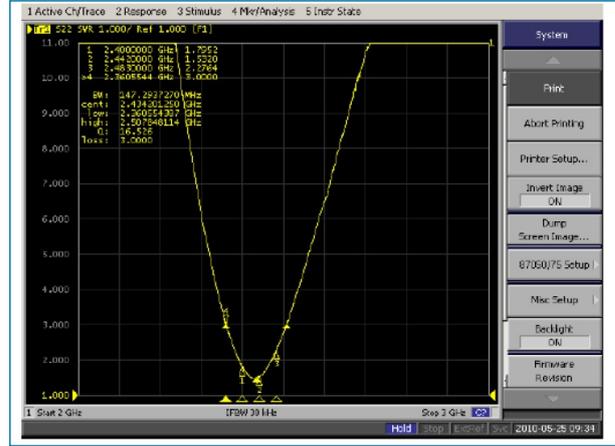
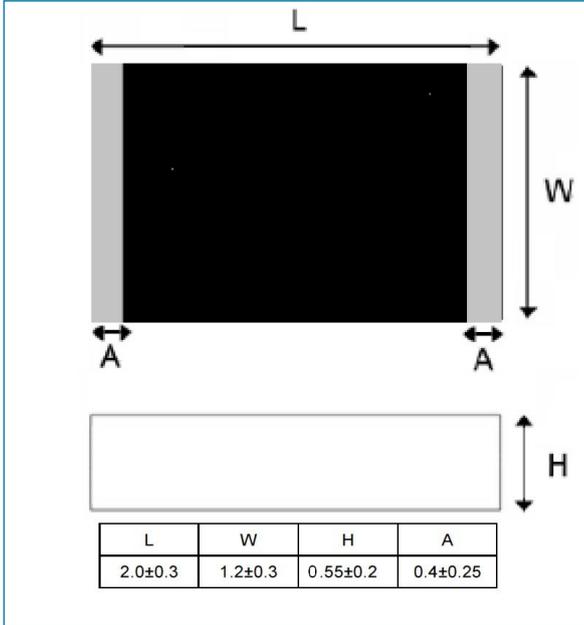
Basic Informationen

Size	2 x 1.2 x 0.55 mm
Notes	Efficiency: 72% Mounting: Surface Mount

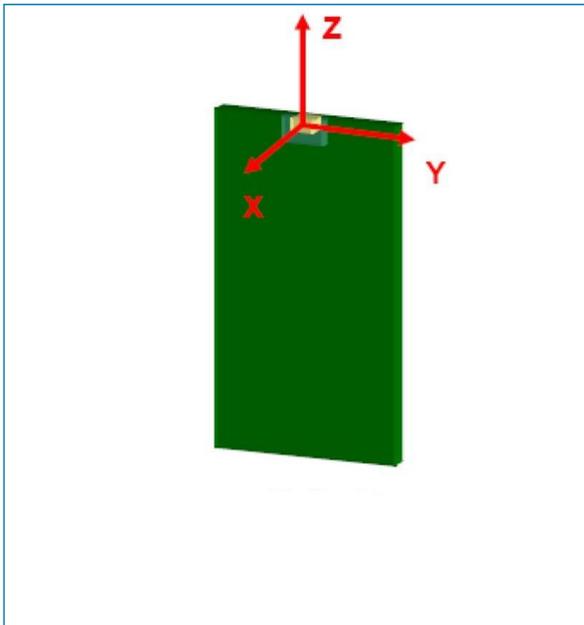


Order-Number: ANT-BXE9533

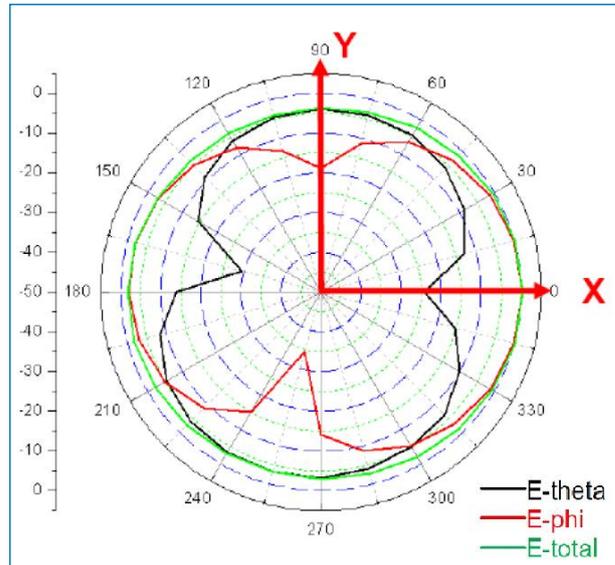
Antenna Graphs - ANT-BXE9533



VSWR

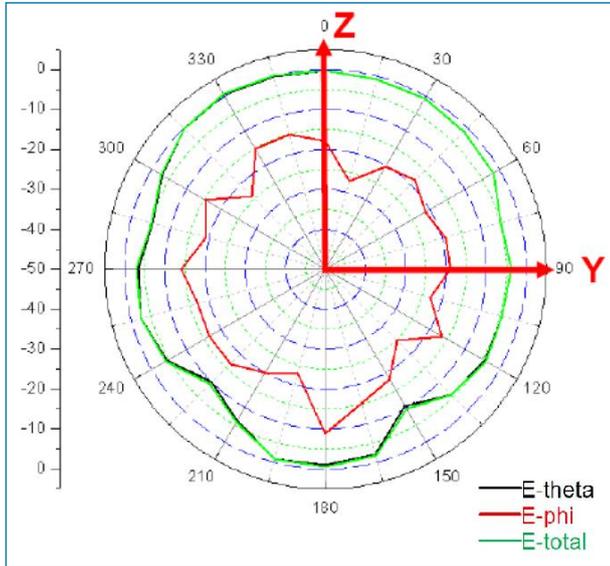


Reference Board

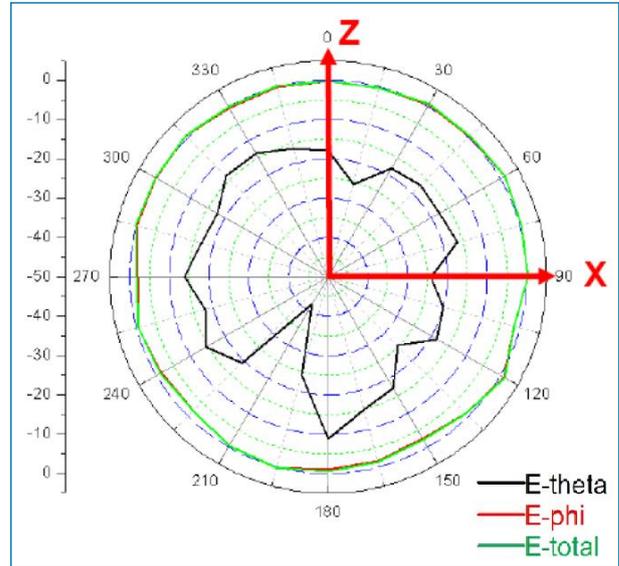


2D Gain Pattern in the yx plane at 2450 MHz

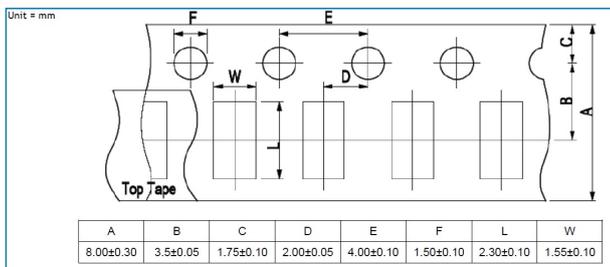
Antenna Graphs - ANT-BXE9533



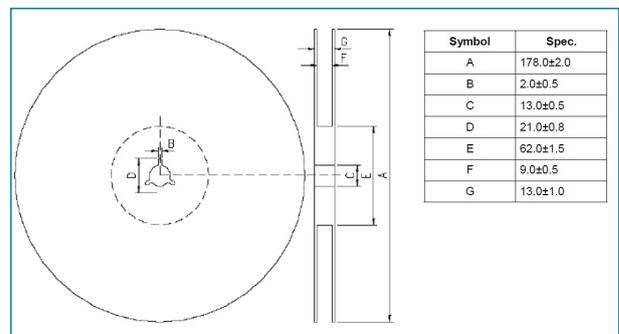
2D Gain Pattern in the yz plane at 2450 MHz



2D Gain Pattern in the xz plane at 2450 MHz



Tape & Reel Specifications



Tape & Reel Specifications

Antenna Graphs - ANT-BXE9533

Item	Condition	Specification
Thermal Shock	<ol style="list-style-type: none"> 30±3 minutes at -40°C±5°C Convert to +105°C (5 minutes) 30±3 minutes at +105°C±5°C Convert to -40°C (5 minutes) Total: 100 continuous cycles 	No apparent damage. Fulfills the electrical spec after test.
Humidity Resistance	<ol style="list-style-type: none"> Humidity: 85% R.H. Temperature: 85±5°C Time: 1,000 hours 	No apparent damage. Fulfills the electrical spec after test.
High Temperature Resistance	<ol style="list-style-type: none"> Temperature: 150°C±5°C Time: 1,000 hours 	No apparent damage. Fulfills the electrical spec after test.
Low Temperature Resistance	<ol style="list-style-type: none"> Temperature: -40°C±5°C Time: 1,000 hours 	No apparent damage. Fulfills the electrical spec after test.
Soldering Heat Resistance	<ol style="list-style-type: none"> Solder bath temperature: 260±5°C Bathing time: 10±1 seconds 	No apparent damage.
Solderability	The dipped surface of the terminal shall be at least 95% covered with solder after being dipped in a solder bath of 245±5°C for 3±1 seconds	No apparent damage.

Reliability Testing

A	1 st Rising Temperature	The normal to preheating temperature	30s to 60s
B	Preheating	140°C to 160°C	60s to 120s
C	2 nd Rising Temperature	Preheating to 200°C	20s to 40s
D	Main Heating	if 220°C	50s~60s
		if 230°C	40s~50s
		if 240°C	30s~40s
		if 250°C	20s~40s
E	Regular Cooling	if 260°C	20s~40s
		200°C to 100°C	1°C /s ~ 4°C /s

Recommended Reflow Soldering

A	1 st Rising Temperature	The normal to preheating temperature	30s to 60s
B	Preheating	140°C to 160°C	60s to 120s
C	2 nd Rising Temperature	Preheating to 200°C	20s to 40s
D	Main Heating	if 220°C	50s~60s
		if 230°C	40s~50s
		if 240°C	30s~40s
		if 250°C	20s~40s
		if 260°C	20s~40s
E	Regular Cooling	200°C to 100°C	1°C /s ~ 4°C /s

Soldering Gun Procedure

- Note the following when using a solder gun to replace the antenna
- The tip temperature must be less than 350°C for the period within 3 seconds when using a soldering gun under 30W.
 - The soldering gun tip shall not touch this part directly.

Soldering Volume

Note that excess of soldering volume will easily crack the body of this product.

Recommended Reflow Soldering