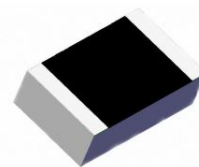




Features

- Higher Reliability
- SMT Process
- Meet RoHS Spec
- Thick/Thin Film and Newly Patent Process
- Higher Gain and Higher Radiation Efficiency



VCA3216Y25TB ----- Multilayer chip Antenna

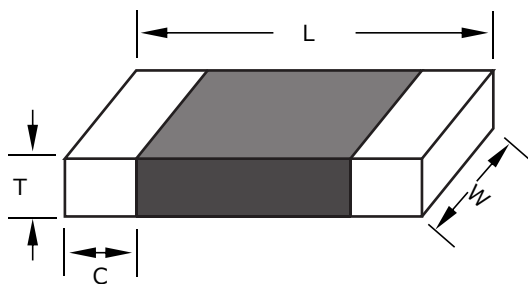
Electrical Characteristics (@TA=25 °C Unless Otherwise Noted)

Parameter	Specification	Units
Frequency	2400~2500MHz & 5150-5850MHz	MHz
Bandwidth	100 (Min.)	MHz
*Peak Gain	2450MHz/3.65	dBi
*Peak Efficiency	85.30%	%
Impedance	50	Ω
Maximum Power	3.5	W
VSWR	≤ 2	
Polarization	Linear	
Manufacturer	RAIN International Technology Co., Ltd	
Address	Building F, 709, Yuxing Technology Industrial Park, Third Industrial Zone, Xixiang Street, Shenzhen	

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Maximum Operating temperature	T _{OPER}	-40 to +90	°C
Maximum Storage temperature	T _{STG}	-55 to +125	°C
Maximum lead temperature for soldering during 10s	T _L	260	°C

Product Dimension

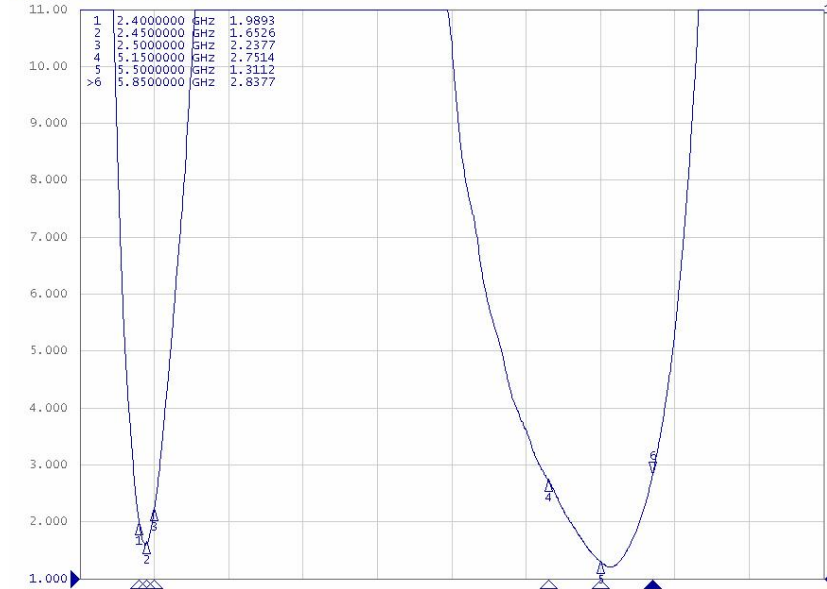


Dimension	MM (INCHES)
L	3.2 ± 0.2 (0.126 ± 0.008)
W	1.6 ± 0.2 (0.063 ± 0.008)
T	0.9 ± 0.2 (0.035 ± 0.008)
C	0.5 ± 0.3 (0.02 ± 0.012)

Typical Characteristics

Fig.1 VSWR

S22 SWR 1.000/ Ref 1.000 [F1 D/M]

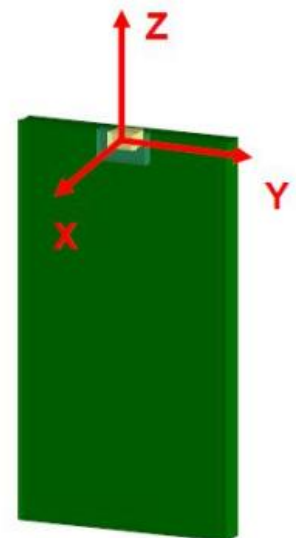
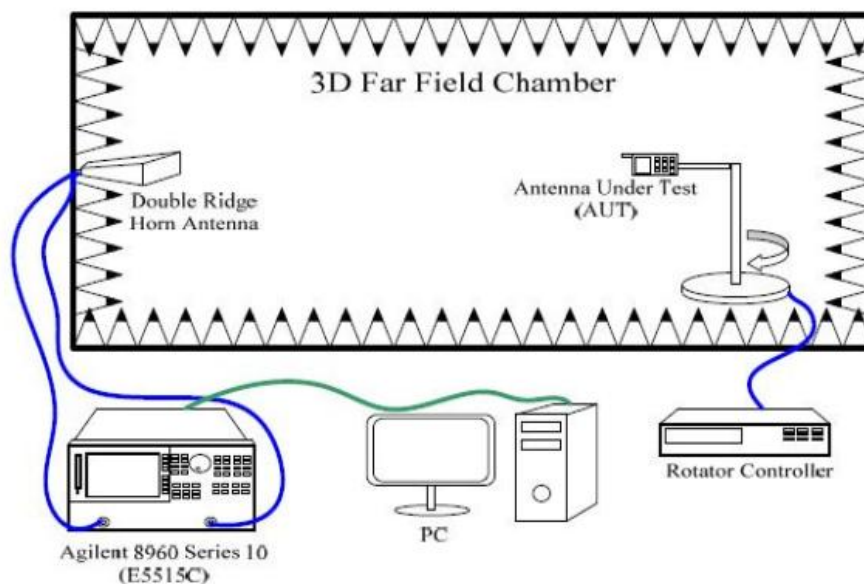


Frequency (MHz)	VSWR
2400	2.0
2450	1.7
2500	2.2
5150	2.8
5500	1.3
5850	2.8

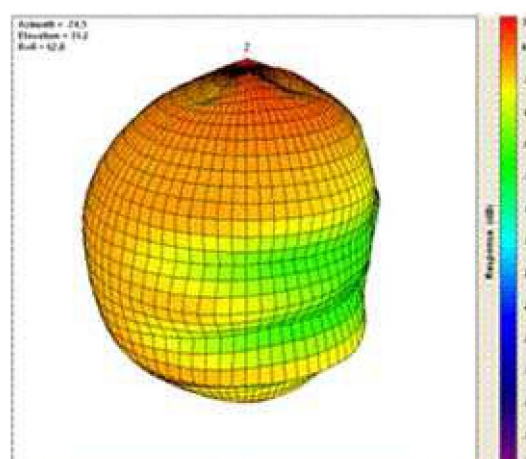
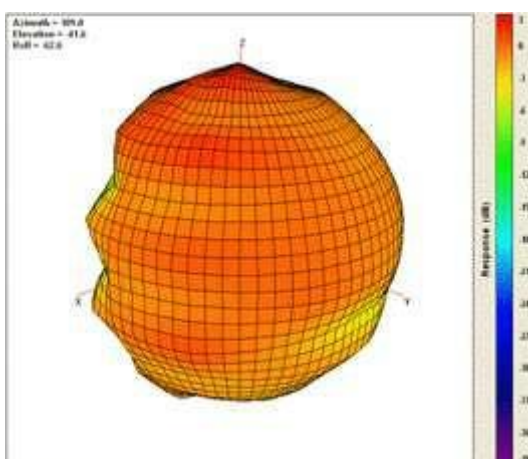
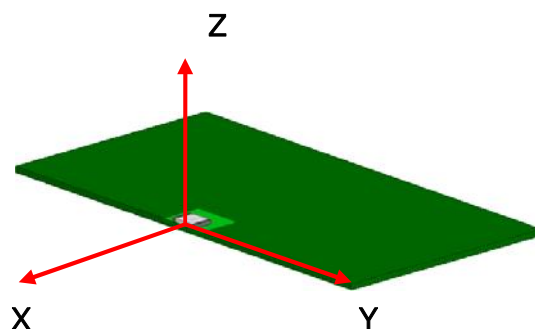
Radiation Pattern

The Gain pattern is measured in Xunjing's FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.

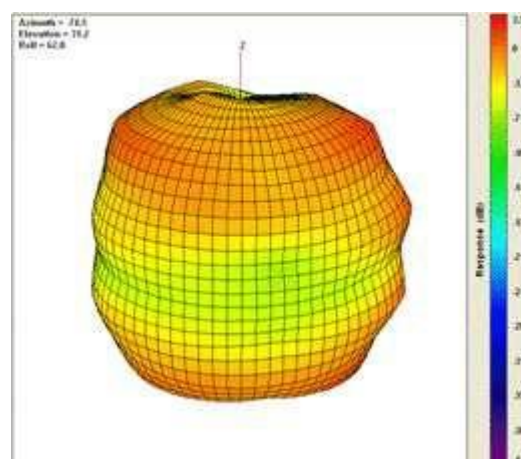
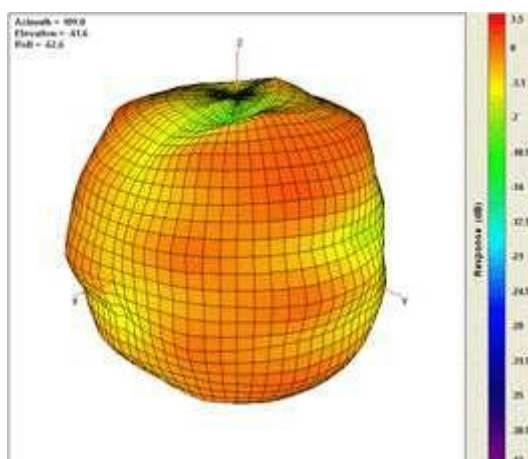
Fig.2 FAR-field Chamber



3D Gain Pattern (2450 MHz)



3D Gain Pattern (5500 MHz)

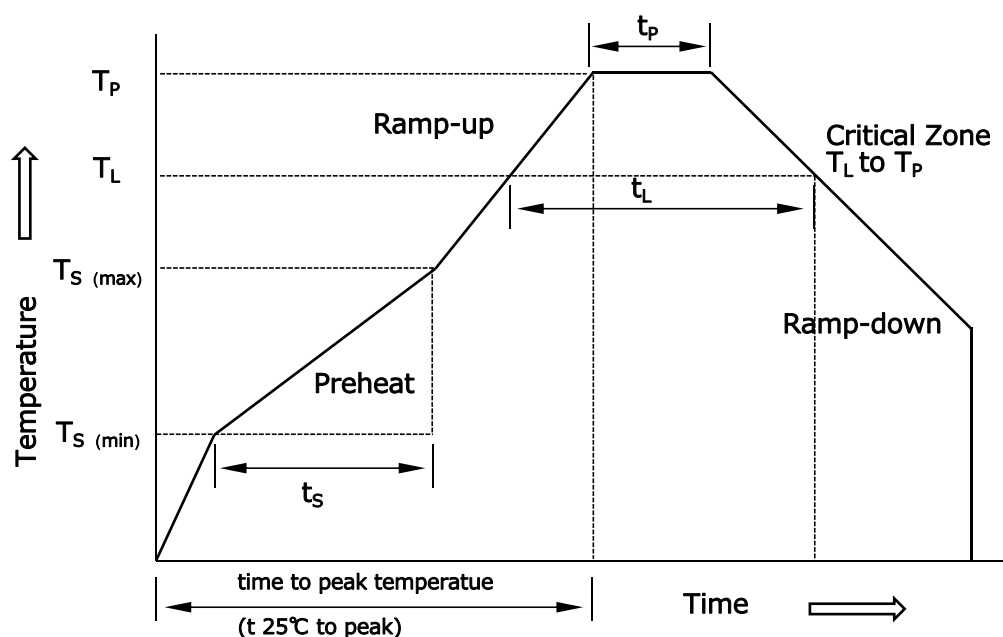




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Recommendable reflow soldering

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate (T _{smax} to T _p)	3 °C/secondmax.
Preheat -Temperature Min(T _{smin}) -Temperature Max(T _{smax}) -Time(T _{smin} to T _{smax})	150 °C 200 °C 60-180seconds
Time maintained above: -Temperature(T _L) -Time(t _L)	217 °C 60-150 seconds
Peak/Classification Temperature(T _p)	260°C
Time within 5°C of actual Peak Temperature(t _p)	20-40 seconds
Ramp-Down Rate	6°C/secondmax.
Time 25°C to Peak Temperature	8 minutes max.

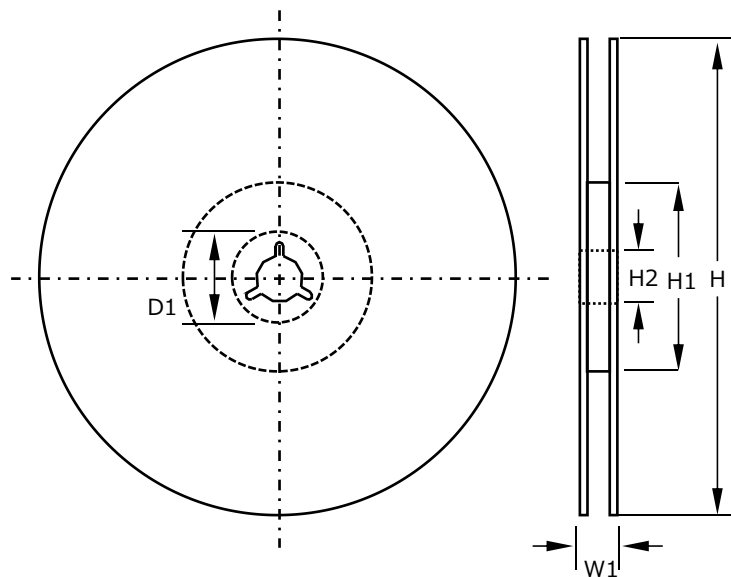
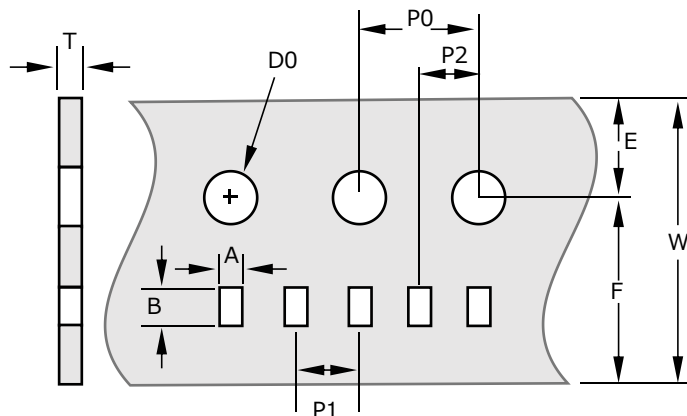




VCA3216Y25TB ----- Multilayer chip Antenna

Packaging Information

Symbol	1206(3216)
A	1.88 ± 0.03 (0.074 ± 0.001)
B	3.50 ± 0.03 (0.138 ± 0.001)
E	1.75 ± 0.10 (0.069 ± 0.004)
F	3.5 ± 0.05 (0.138 ± 0.002)
P0	4.00 ± 0.10 (0.157 ± 0.004)
P1	4.00 ± 0.10 (0.157 ± 0.004)
P2	2.00 ± 0.05 (0.079 ± 0.002)
D0	1.50 ± 0.10 (0.059 ± 0.004)
W	8.00 ± 0.30 (0.315 ± 0.012)
T	1.5 ± 0.03 (0.059 ± 0.001)
D1	21.00 ± 0.80 (0.827 ± 0.032)
H	180.00 ± 2.00 (7.087 ± 0.079)
H1	62.0 ± 1.5 (2.44 ± 0.059)
H2	13.00 ± 1.00 (0.512 ± 0.039)
W1	13.0 ± 1.00 (0.512 ± 0.039)



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Quantity of products in the taping package

- (1) Standard quantity : 5,000 pcs/Reel for the Series.
- (2) Shipping quantity is a multiple of standard quantity.
- (3) For additional information, please contact your local Sales Representative.