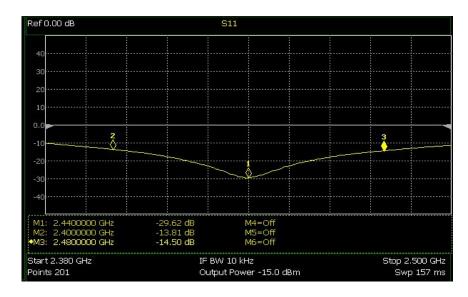


NO.

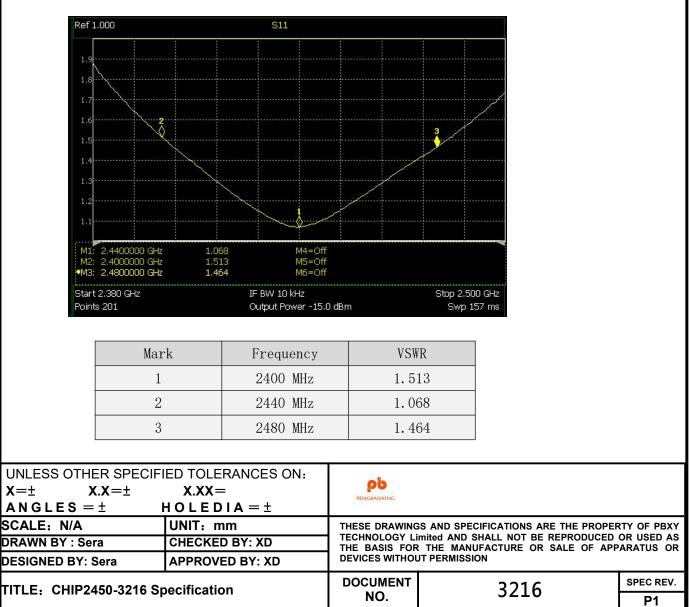
**P1** 

# 6. Electrical Characteristics :

## Return loss

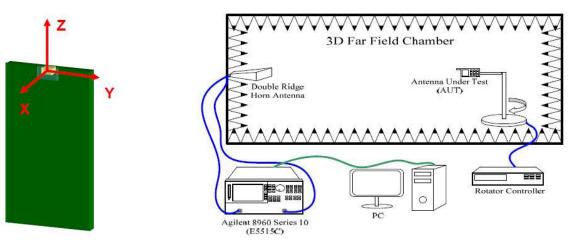


#### Standing wave ratio

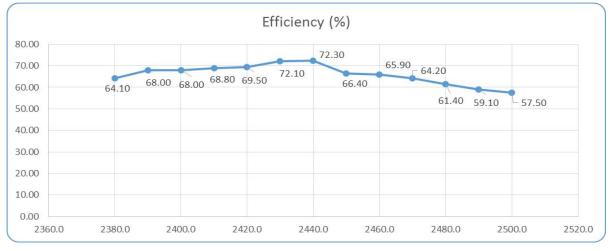


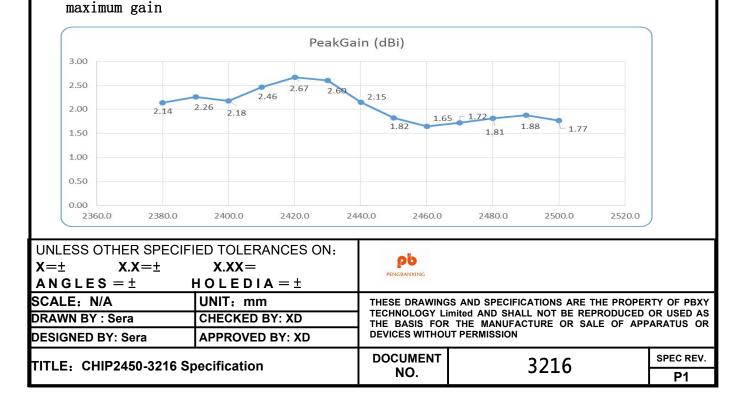
### **Radiation Pattern**

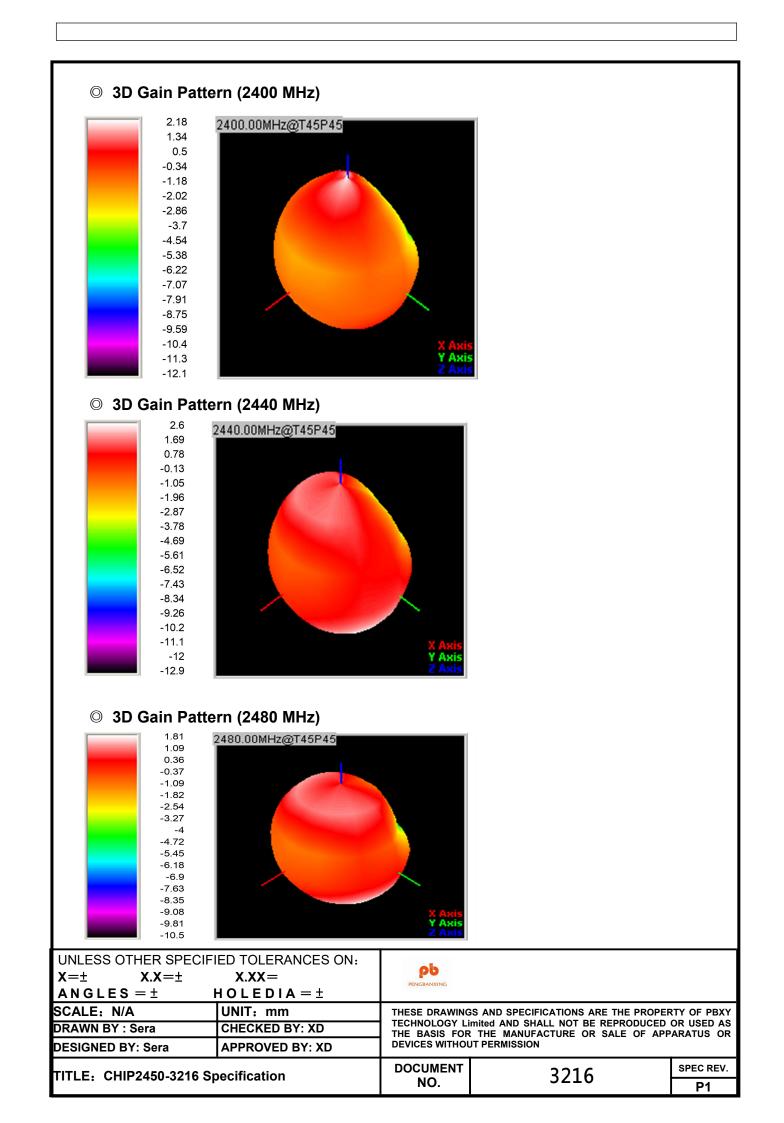
The Gain pattern is measured in FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.



## $\bigcirc$ efficiency







# 7. Environmental Characteristics

## (1) Reliability Test

Item	Condition	Specification	
Thermal shock	1. $30\pm 3$ minutes at $-40^{\circ} \text{ C}\pm 5^{\circ} \text{ C}$ , 2. Convert to $+105^{\circ} \text{ C}$ (5 minutes) 3. $30\pm 3$ minutes at $+105^{\circ} \text{ C}\pm 5^{\circ} \text{ C}$ , 4. Convert to $-40^{\circ} \text{ C}$ (5 minutes) 5. Total 100 continuous cycles	No apparent damage Fulfill the electrical spec. after test.	
Humidity resistance	1. Humidity: 85% R.H. 2. Temperature: $85\pm5^{\circ}$ C 3. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
High temperature resistance	1. Temperature: 150°C±5°C 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
Low temperature resistance	1. Temperature: $-40^{\circ} \text{ C} \pm 5^{\circ} \text{ C}$ 2. Time: 1000 hours.	No apparent damage Fulfill the electrical spec. after test.	
Soldering heat resistance	1. Solder bath temperature : 260±5℃ 2. Bathing time: 10±1 seconds	No apparent damage	
Solderability	The dipped surface of the terminal shall be at least 95% covered with solder after dipped in solder bath of $245\pm5^\circ$ for $3\pm1$ seconds.	No apparent damage	

### (2) Storage Condition

#### (a) At warehouse:

The temperature should be within  $0 \sim 30^{\circ}$ C and humidity should be less than 60% RH.

The product should be used within 1 year from the time of delivery.

#### (b) On board:

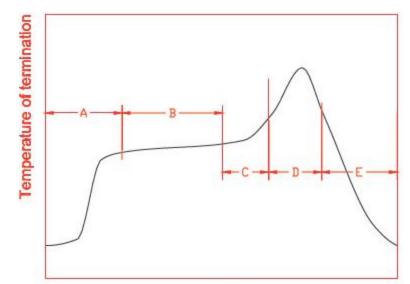
The temperature should be within -40~85°C and humidity should be less than 85% RH.

#### (3) Operating Temperature Range

Operating temperature range : -40  $^{\circ}$ C to +105  $^{\circ}$ C.

UNLESS OTHER SPECIF X=± X.X=± ANGLES = ±	IED TOLERANCES ON: X.XX= H O L E D I A = ±	PENGBANXING		
SCALE: N/A	UNIT: mm	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PBX		
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# 8. Recommended Reflow Soldering



		Time	
A	1 <sup>st</sup> rising temperature	The normal to Preheating temperature	30s to 60s
В	Preheating	140℃ to 160℃	60s to 120s
С	2 <sup>nd</sup> 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	$1^{\circ}C/s \sim 4^{\circ}C/s$
-			

\*reference: J-STD-020C

#### (1) Soldering Gun Procedure

Note the follows, in case of using solder gun for replacement.

- (a) The tip temperature must be less than 350° C for the period within 3 seconds by using soldering gun under 30 W.
- (b) The soldering gun tip shall not touch this product directly.

### (2) Soldering Volume

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

UNLESS OTHER SPECIF X=± X.X=± ANGLES = ±	IED TOLERANCES ON: X.XX= H O L E D I A = ±	PENGBANXING		
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