

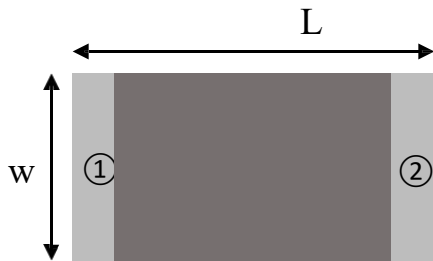
Features

1. Surface Mounted Devices with a small dimension of 1.6 x 0.8 x 0.8 mm meet future miniaturization trend.
2. Embedded and LTCC (low temperature co-fired ceramic) technology is able to integrate with system design as well as beautifying the housing of final product.
3. High stability and low tolerance.

Applications

1. Bluetooth
2. Wireless LAN
3. ISM band 2.4GHz wireless applications

Dimensions (Unit: mm)



(Top View)

Number	Terminal Name
①	INPUT
②	NC



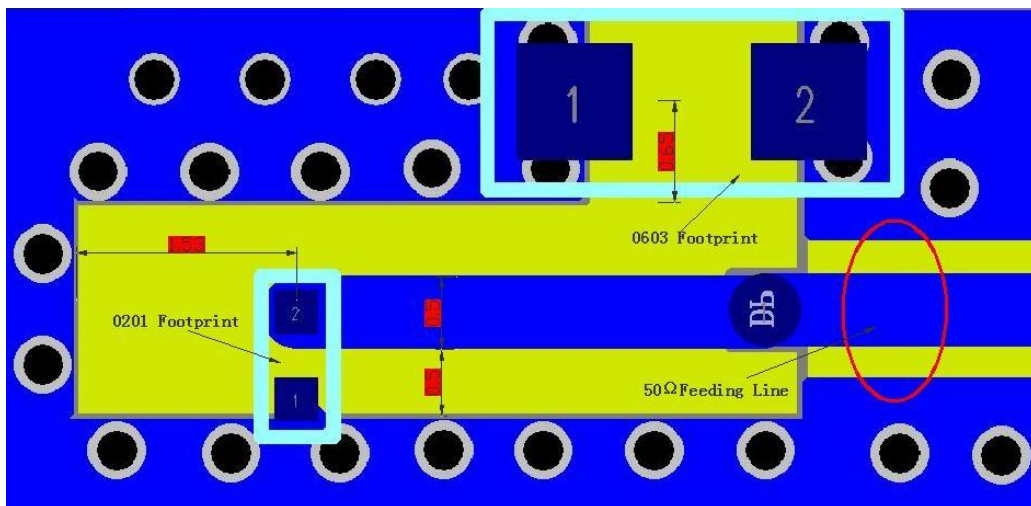
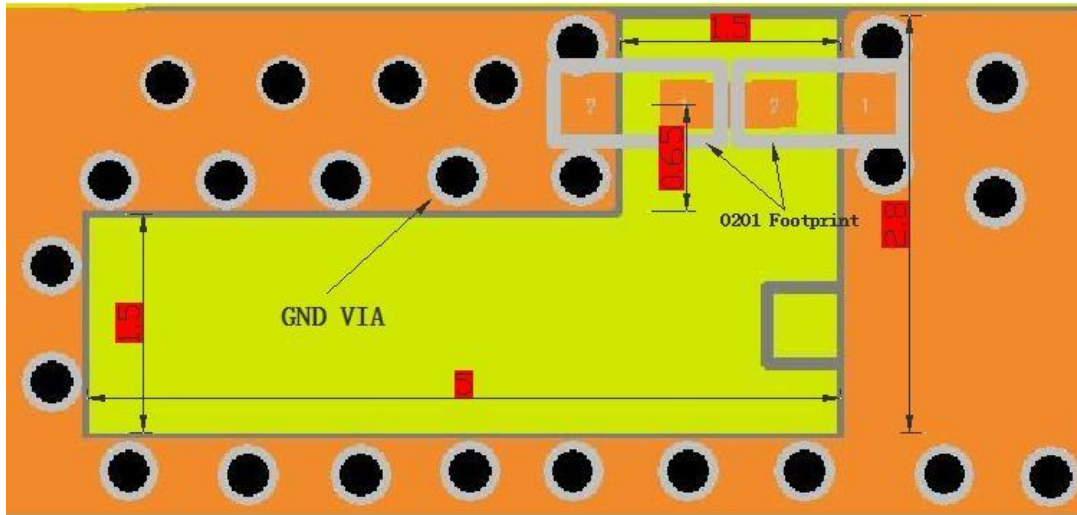
(Bottom View)



(Side View)

Symbols	L	W	T	A
Dimensions	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.10

Evaluation Board and Matching Circuits



地址：深圳市宝安区西乡街道共乐社区铁仔路九方广场2栋1905
TEL: 0755-23591525, FAX: 0755-23591525

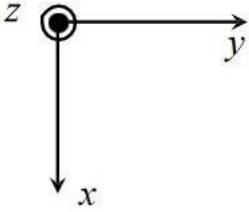
S11-Parameter



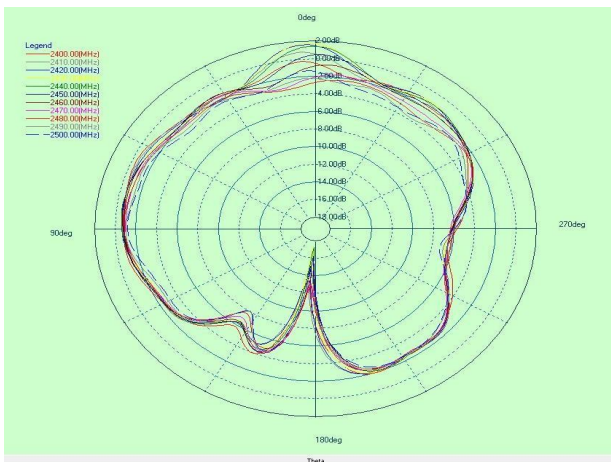
Frequency(MHz)	2400	2450	2480	2500
VSWR	1.56	1.16	1.48	1.79

Radiation Pattern

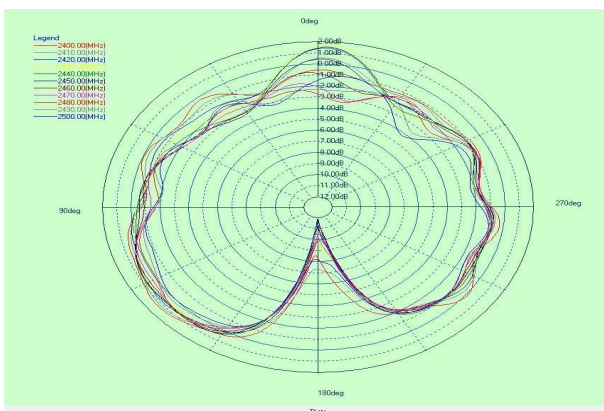
coordinates:



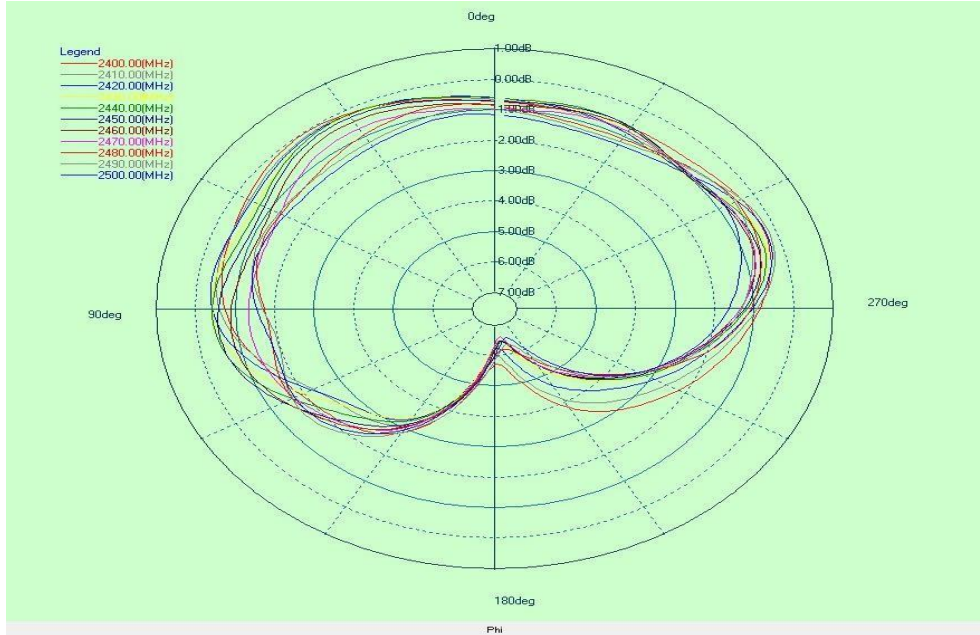
Y-Z Plane



X-Z Plane



X-Y Plane



Frequency	2400MHz	2450MHz	2490MHz
Avg. gain	1.10	1.33	0.45
Peak gain	2.5	2.6	2.5
Efficiency	55%	57%	53%

Dependability Test

	Test Temperature: 25°C±3°C
Operating Temperature	-25°C~+85°C
Temperature	5~40°C
Relative Humidity	20~70%

Moisture Proof

Temperature: 40±2°C Humidity: 90~95%RH

Duration: 500h

Recovery conditions: Room temperature Recovery Time: 24h (Class1) or 48h (Class2)

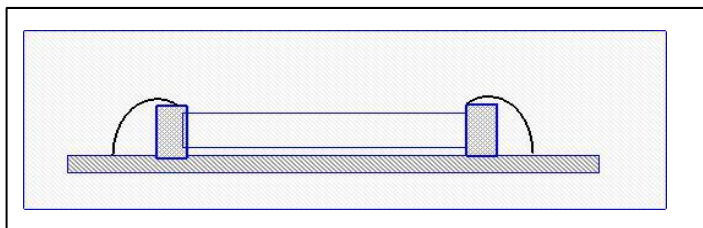
Solderability

At least 95% of the terminal electrode is covered by new solder. Preheating conditions: 80 to 120°C; 10~30s.

Solder Temperature: 235±5°C Duration: 2±0.5s, Solder Temperature: 245±5°C Duration: 2±0.5s

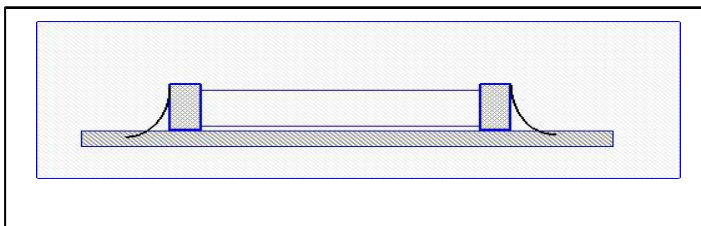
Optimum Solder Amount for Reflow Soldering

Too much solder



Cracks tend to occur due to large stress.

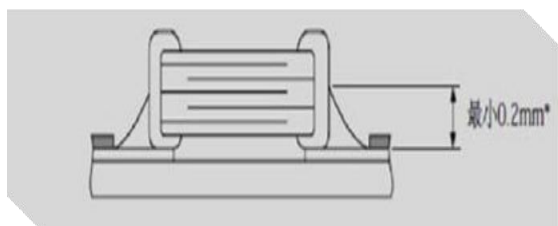
Not enough solder



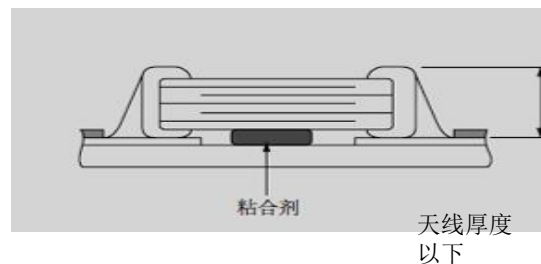
Weak holding force may cause bad connection between the capacitor and PCB.

Recommended Soldering amounts

The optimal solder fillet amounts for re-flow soldering

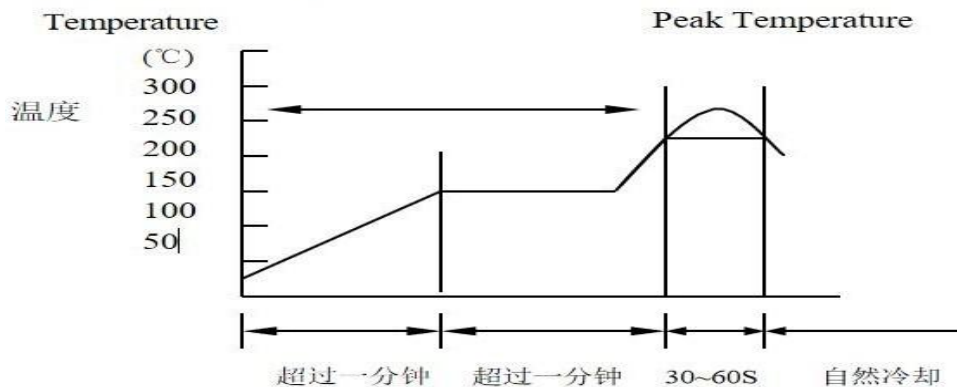


The optimal solder fillet amounts for wavesoldering



The temperature profile for soldering

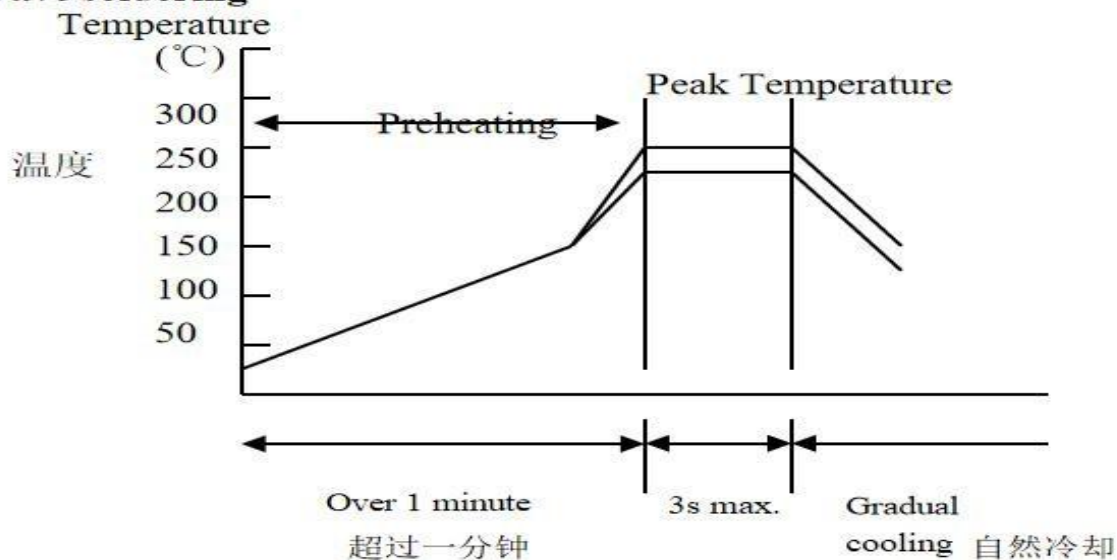
Re-flow soldering



	Pb-Sn 焊接 Pb-Sn soldering	无铅焊接 Lead-free soldering
尖峰温度 Peak temperature	230°C~250°C	240°C~260°C

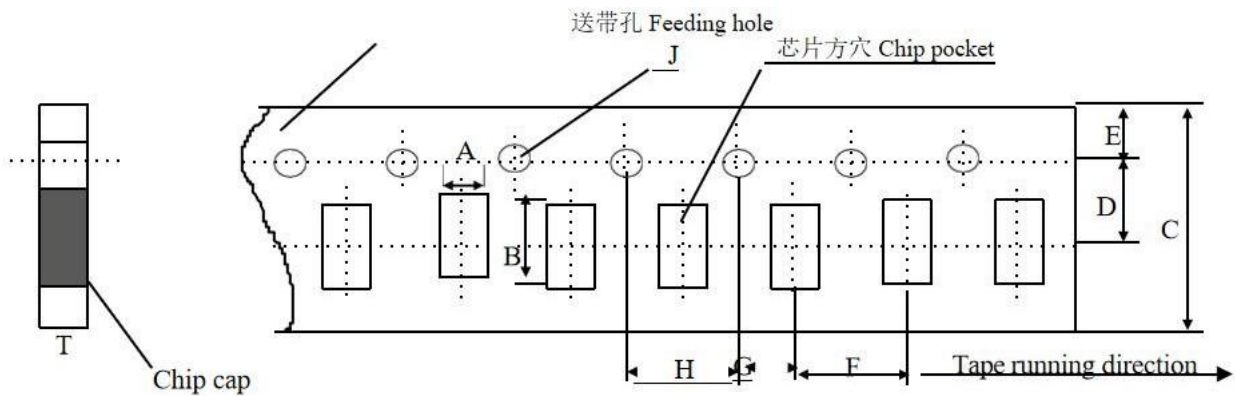
While in preheating, please keep the temperature difference between soldering temperature and surface temperature of chips as: $T \leq 150^\circ\text{C}$.

Wave soldering



	Pb-Sn 焊接 Pb-Sn soldering	无铅焊接 Lead-free soldering
尖峰温度 Peak temperature	230°C~260°C	240°C~270°C

Dimensions of paper taping for 0603types



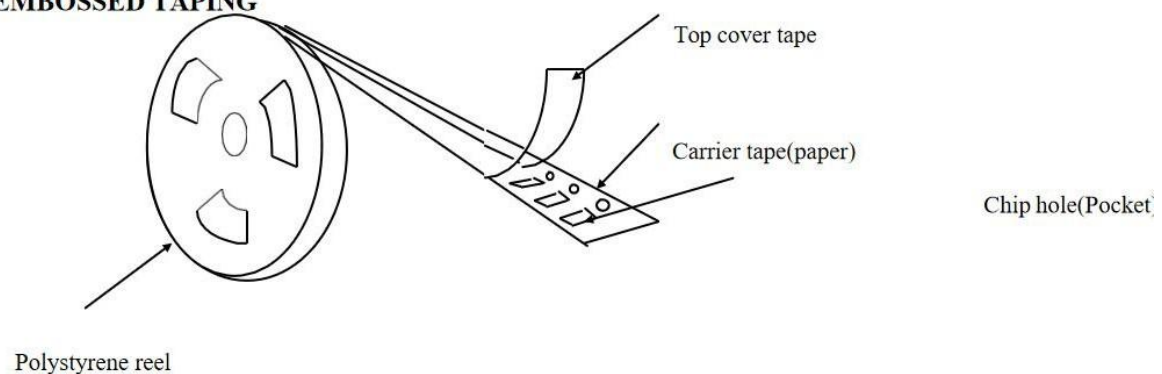
Unit: mm

代号 Code 纸带规格 papersize	A	B	C	D*	E	F	G*	H	J	T
0603	1.10 ±0.10	1.90 ±0.10	8.00 ±0.10	3.50 ±0.05	1.75 ±0.10	4.00 ±0.10	2.00 ±0.10	4.00 ±0.10	1.50 -0/+0.10	1.10 Max

Reel (4000 pcs/Reel)

Note: The place with * means where needs exactly dimensions.

EMBOSED TAPING



Storage Period

The guaranteed period for solderability is 6 months (Under deliver package condition). Temperature 5~40°C /Relative Humidity 20~70%