

SPECIFICATION

Ceramic Antenna

PART NO. SKT321606-CD-02-R

VERSION V2.1

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1. Naming Rules

Type: SKT-ABCDEF-GH-IJ-K

1. SKT: Shortcut for Thinkte
2. ABCDEF: AB: Length(mm) CD: Width(mm)
For example: 502010 5.0mm*2.0mm
3. G: Material (C- Ceramic P- Polymer)
4. H: Feeding (S- Single D - Dual)
5. I J: Version (01 - 99)
6. K: Package (R - Reel, T - Tape)

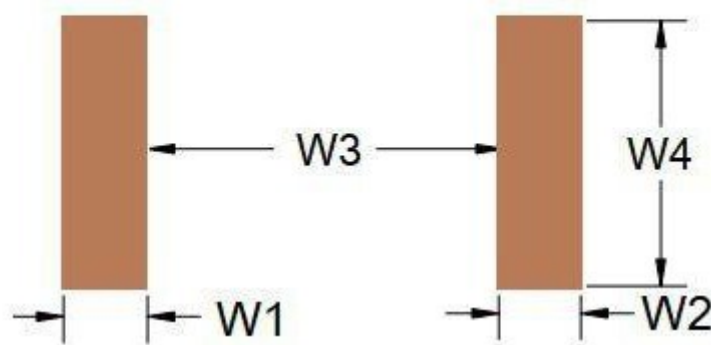
2. Antenna Specification

Outline Dimensions	3.2x1.6x0.6(mm)
Ground Plane	3.2x1.6(mm)
Frequency Range	2.4GHz ~ 2.5GHz
Impedance	50 Ohm Nominal
Bandwidth (under -10dB return loss)	100MHz (Typ.)
Radiation	Omni-directional
Peak Gain	2.3 dBi (Typ.)
Efficiency	60% (Typ.)
Polarization	Linear Polarization
Storage Temp	-40℃ ~ +85℃
Color	Black

3. Antenna Dimension

Type	L	W	T	a
SKT3216	3.2 ± 0.2	1.6 ± 0.2	0.6 ± 0.2	0.4 ± 0.2

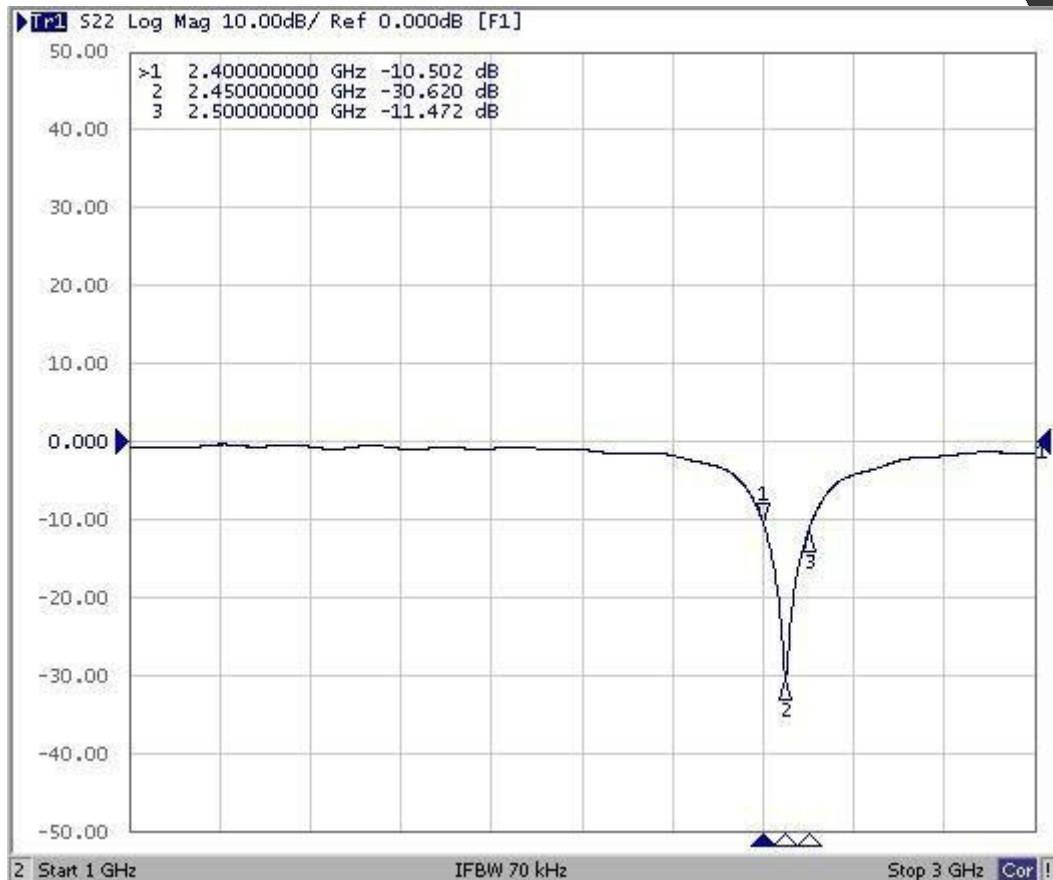
FootPrint (Unit : mm)



Type	W1	W2	W3	W4
SKT3216	0.4 ± 0.2	0.4 ± 0.2	2.4 ± 0.2	1.6 ± 0.2

4. Test Data:

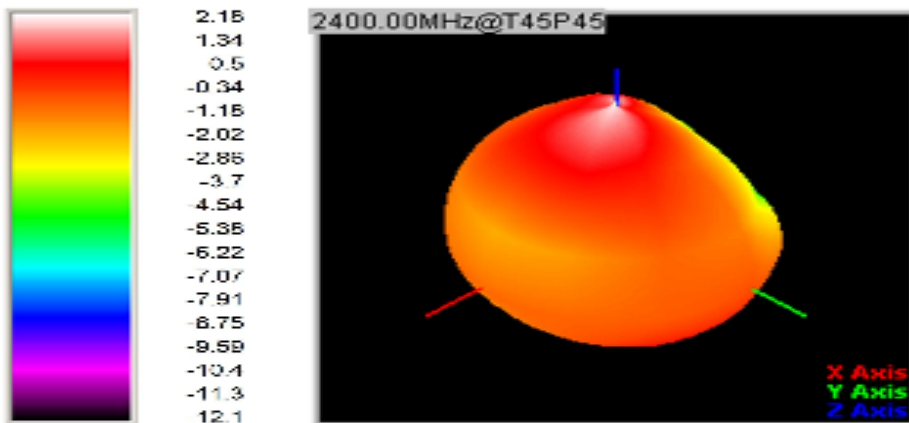
3.1 ELECTRICAL CHARACTERISTICS



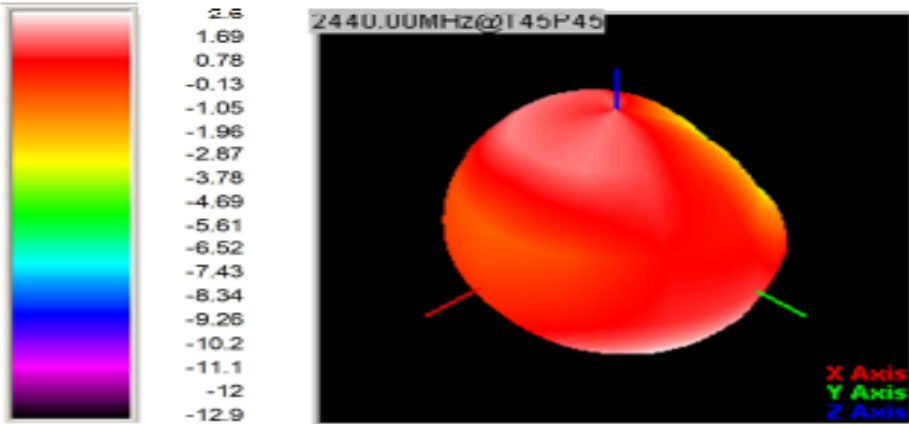
3.2 Radiation Pattern



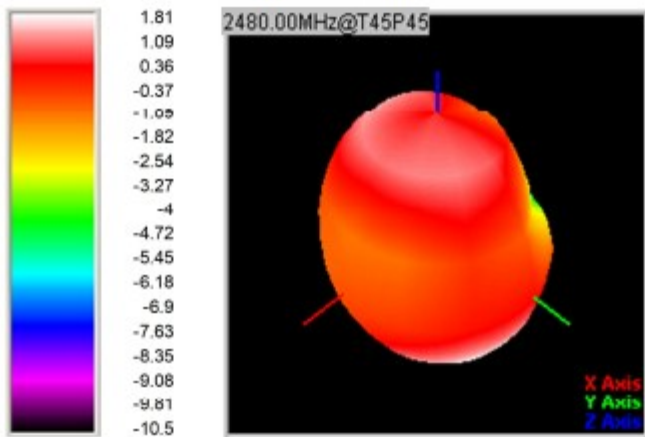
© 3D Gain Pattern (2400 MHz)



© 3D Gain Pattern (2440 MHz)

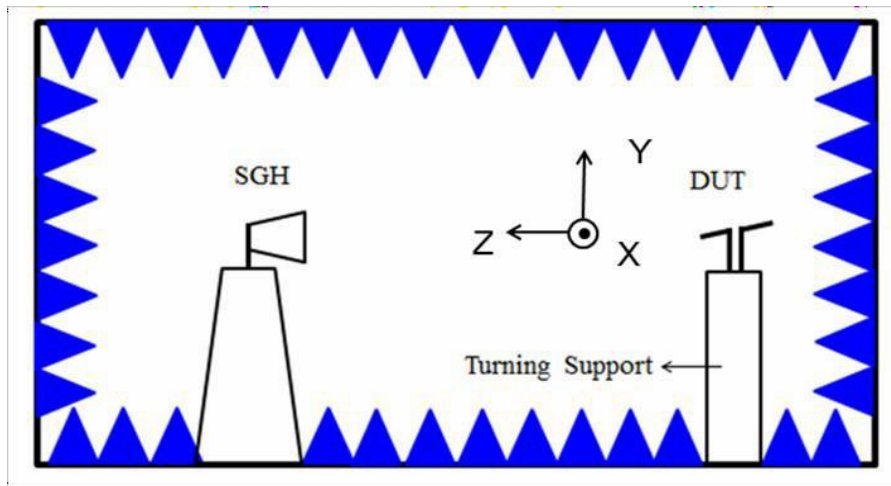


© 3D Gain Pattern (2480 MHz)



	Efficiency	Peak Gain	Directivity
2400MHz	57.45%	1.3 dBi	2.45 dBi
2440MHz	60.65%	2.3 dBi	2.89 dBi
2480MHz	56.75%	1.45dBi	2.23 dBi

Chamber Coordinate System

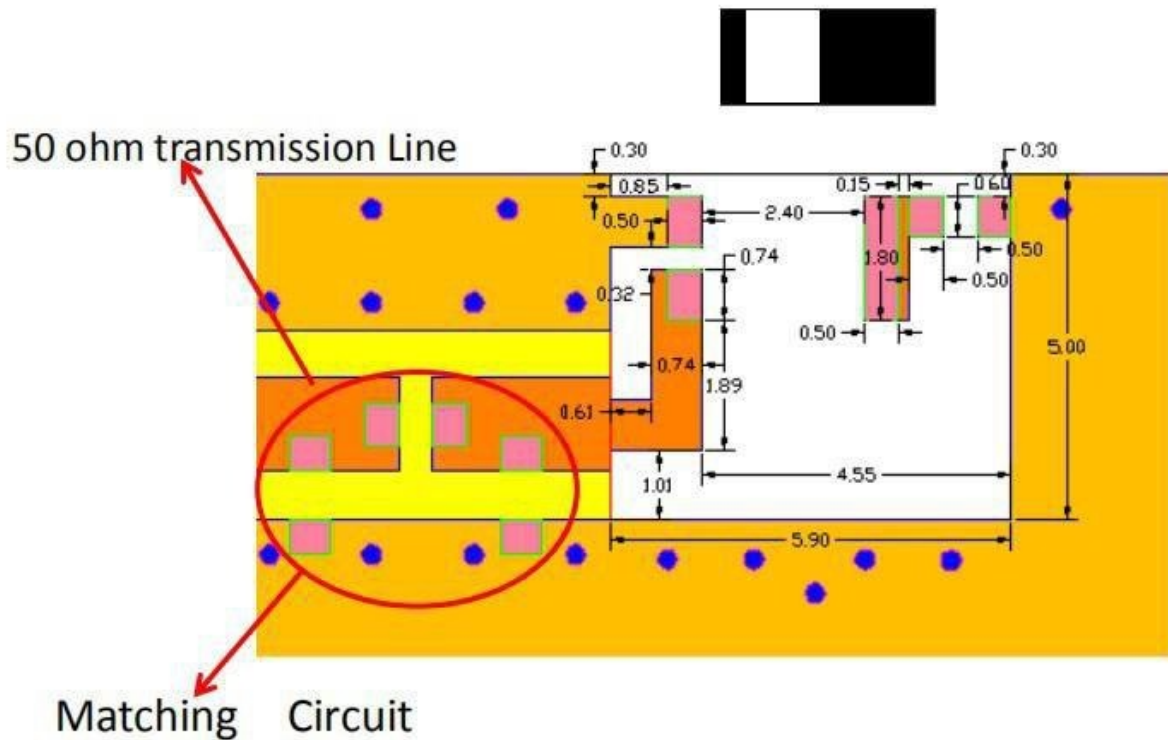


5. LayoutGuide:

Solder Land Pattern:

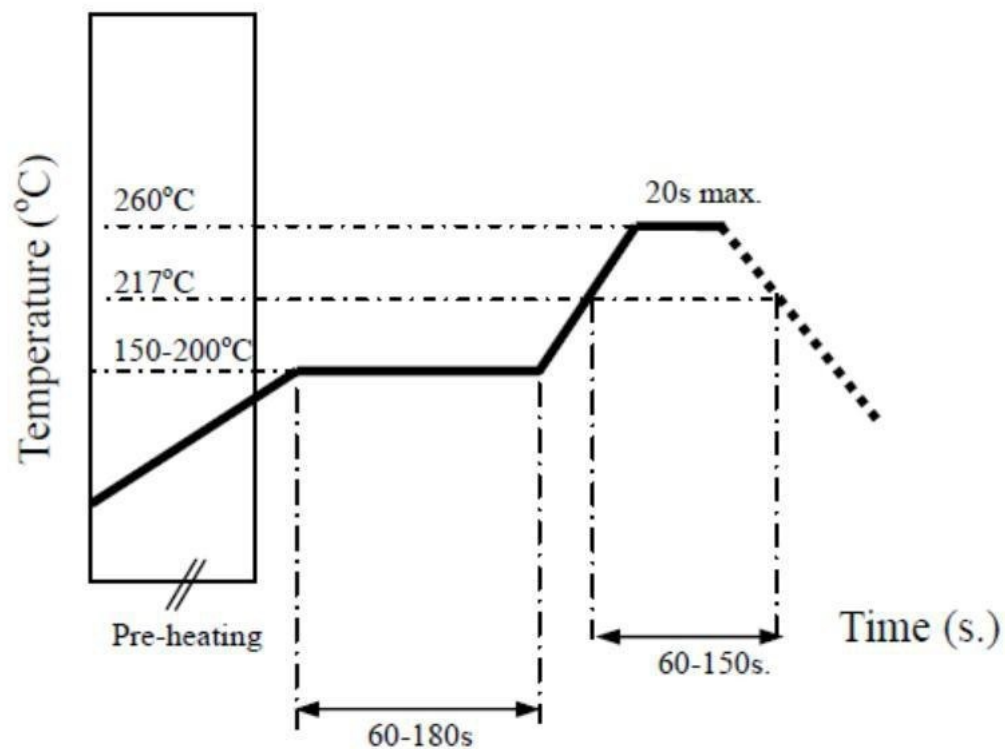
Land pattern for soldering (black marking areas) is as shown below. Matching circuit is needed for good performance, when customer's device is different.

Layout Dimensions in Clearance area(Size=5.9*5.0mm)



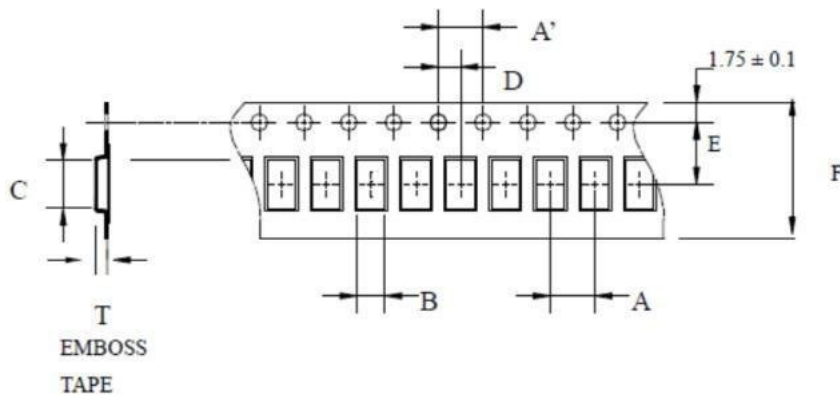
6. Soldering Conditions:

Typical Soldering Profile for Lead-free Process



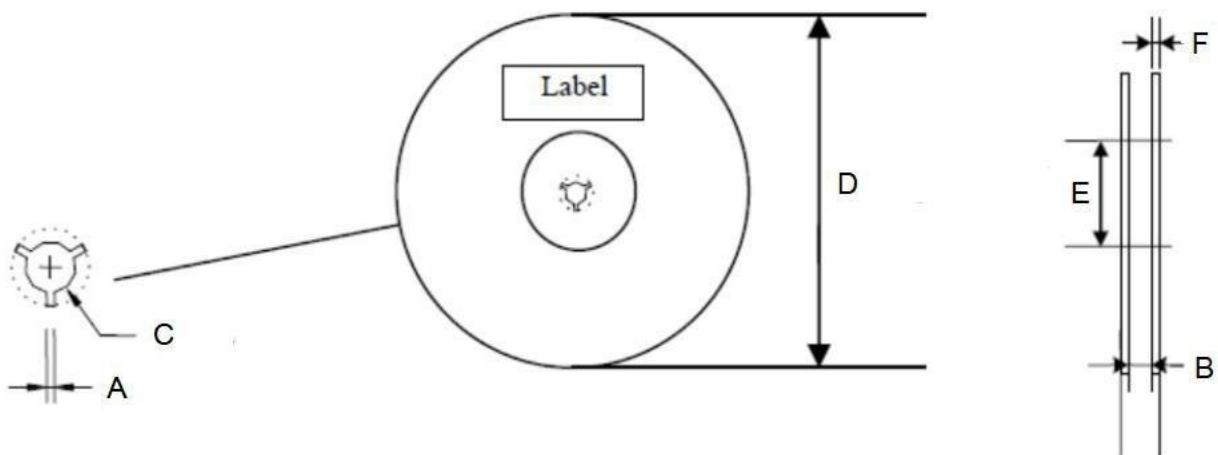
7. Taping Specifications:

Tape Dimensions (Unit: mm) & Quantity



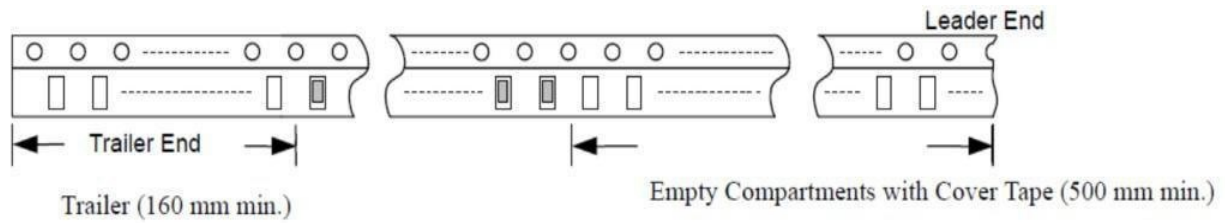
Type	A	A'	B	C	D	E	F	T	Quantity/Reel	Type Material
SKT3216	4.0 ±0.1	4.0 ±0.1	1.95 ±0.1	3.50 ±0.1	2.0 ±0.05	3.5 ±0.1	8.0 ±0.1	0.85 ±0.1	5,000pcs	Plastic (Embossed)

Reel Dimensions (Unit: mm)



Type	A	B	C	D	E	F
SKT3216	2.3 ±0.5	17 ±0.5	13.5 ±0.5	178 ±1	75 ±3	1.4 ±0.2

Leader and Trailer Tape



Soldering Conditions:

- (1) Temperature: 5~35°C, relative humidity (RH): 45~75%.
- (2) Non-corrosive environment

Preliminary