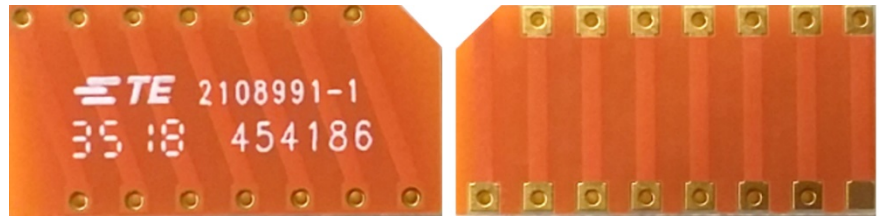


698– 960 MHz Helical Antenna for IoT (includes frequencies of IoT solutions)

Part Number: 2108991-1

Product Facts

- This IoT antenna Provides the most reliable Easy-to-use
- RoHS compliant
- Available in tape & reel
- 4 kinds of PCB conditions(A,B,C,D)



Recommendations

- Minimum matching circuits required.
- Bandwidth and performance is dependent on ground plane size.
- Advantages of selecting frequency band according to customer demands

Specifications

Frequency Range(MHz) — 698-960
 Peak Gain — See the below chart
 VSWR — < 3.5:1
 Azimuth Beam width — Omni directional
 Power Handling — 10 Watt cw

Feed Point Impedance — 50 ohms
 Size — 18.00mm x 9.00mm x 1.57mm
 Weight — <0.5g
 Mounting — Surface-mount technology
 Keep Out Area — See diagram on next page
 Operating Temperature — -40~+85°C

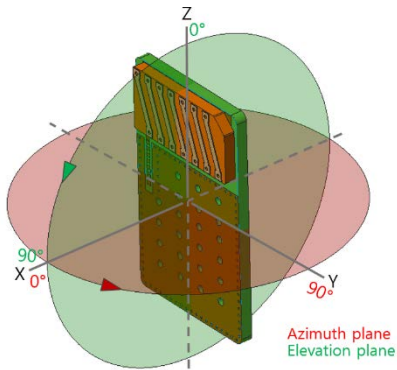
Summary data

	Option #A	Option #B	Option #C	Option #D
Figure				
VSWR				
Efficiency [%]				
Peak Gain [dBi]	+0.2	+0.1	+0.5	+1.2

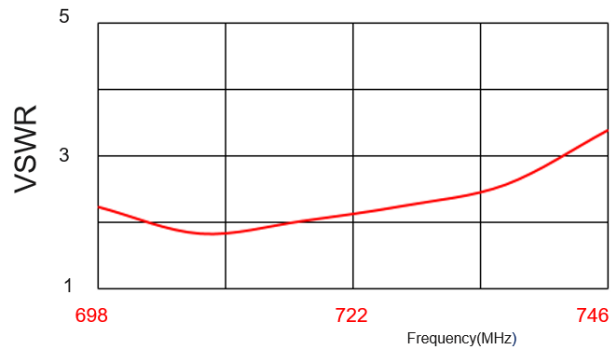
698–960 MHz Helical Antenna for IoT (includes frequencies of IoT solutions) (Continued)

(Option #A)

Test Orientation in Free Space

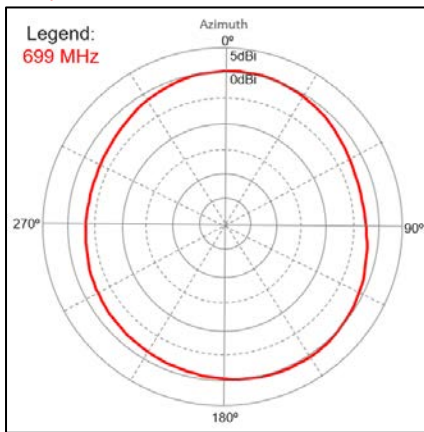


VSWR

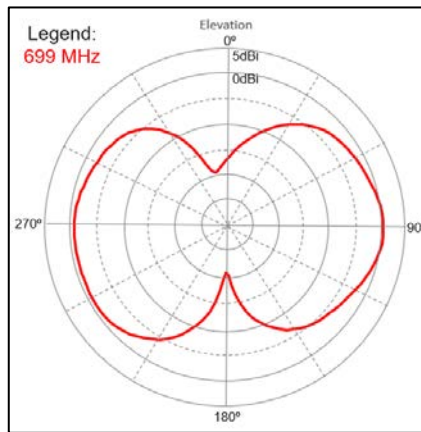


Azimuth

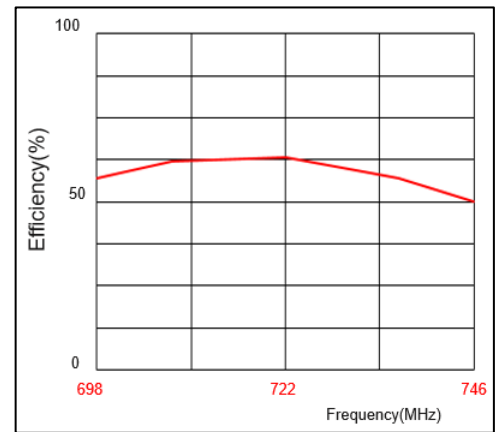
(Option #A)



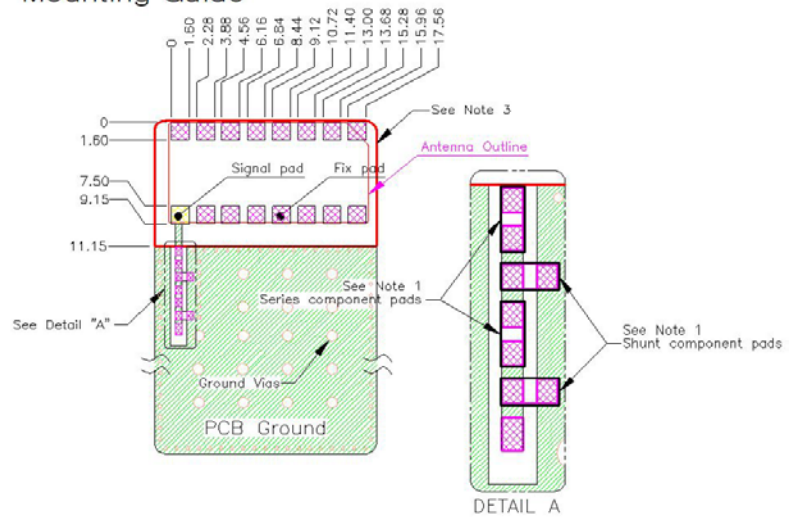
Elevation



Efficiency



Mounting Guide



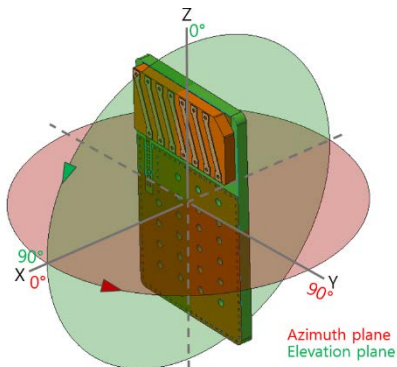
- NOTES: 1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
 3. No copper allowed in designated area on all PCB layer -
 4. For more information please call TE.

Dimensions: mm
 Diagram is not to scale

698–960 MHz Helical Antenna for IoT (includes frequencies of IoT solutions) (Continued)

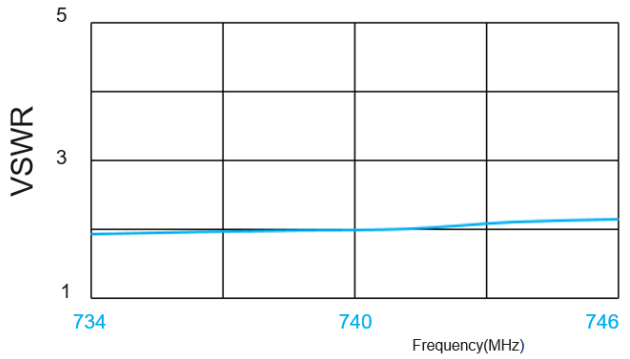
(Option #B)

Test Orientation in Free Space



Azimuth

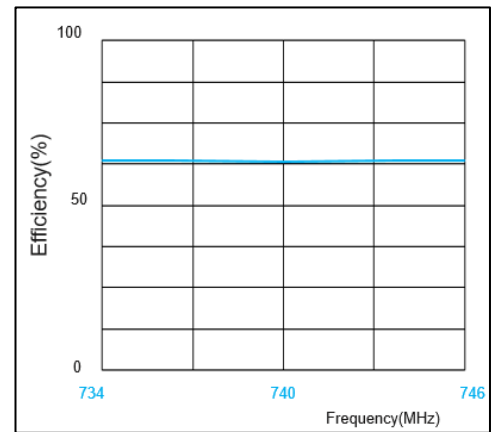
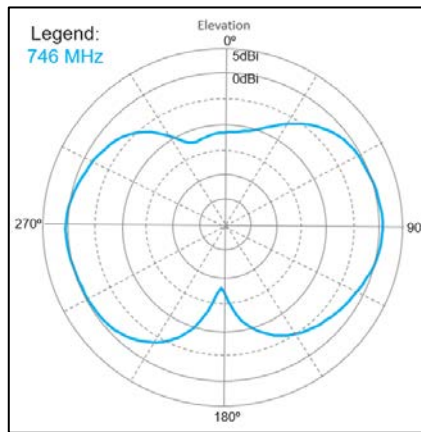
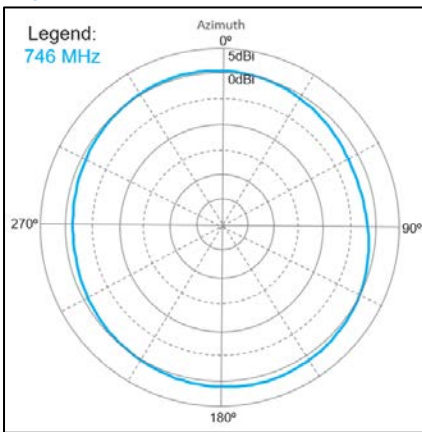
VSWR



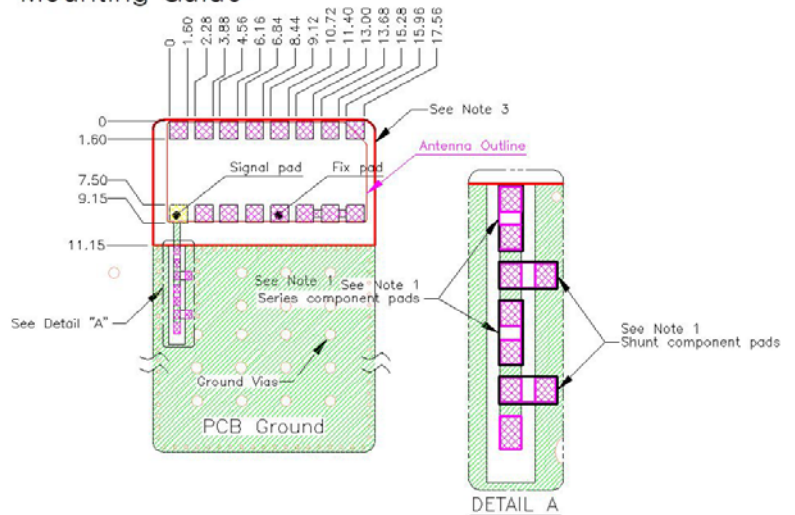
Elevation

Efficiency

(Option #B)



Mounting Guide



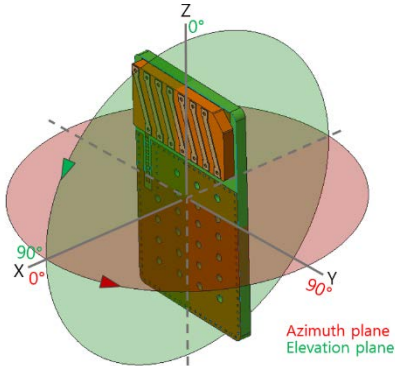
- NOTES: 1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
 3. No copper allowed in designated area on all PCB layer -
 4. For more information please call TE.

Dimensions: mm
 Diagram is not to scale

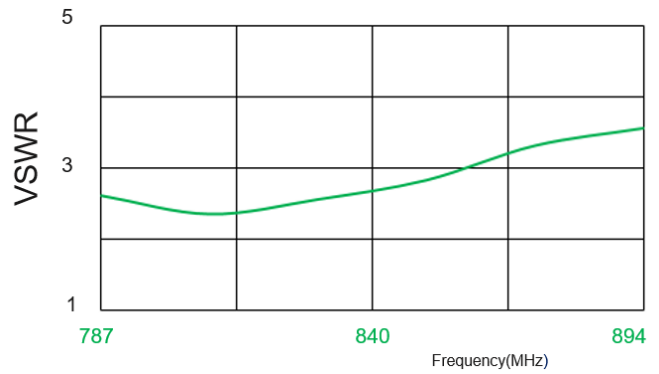
698–960 MHz Helical Antenna for IoT (includes frequencies of IoT solutions) (Continued)

(Option #C)

Test Orientation in Free Space



VSWR

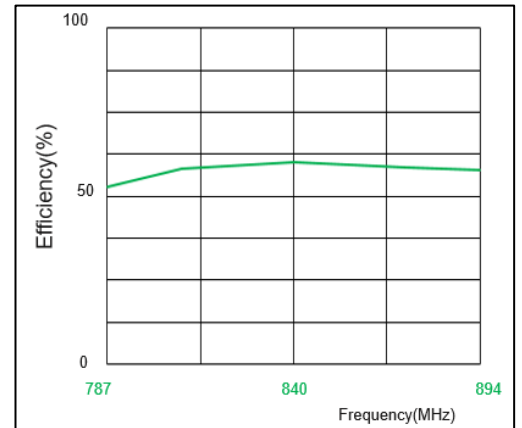
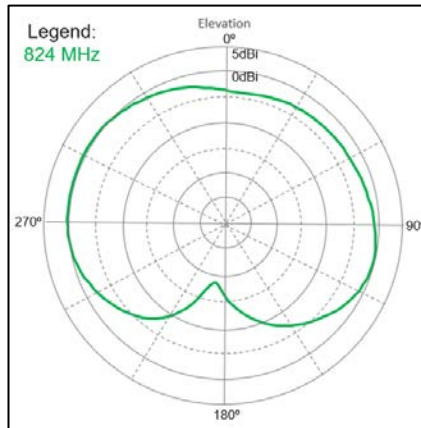
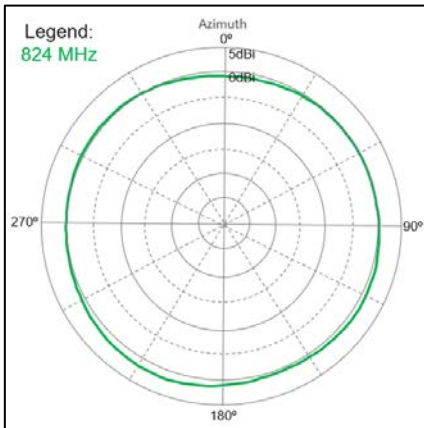


Azimuth

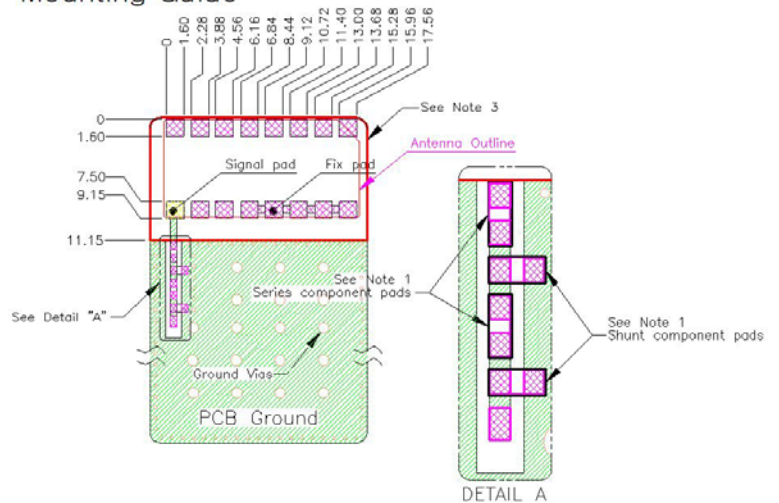
Elevation

Efficiency

(Option #C)



Mounting Guide



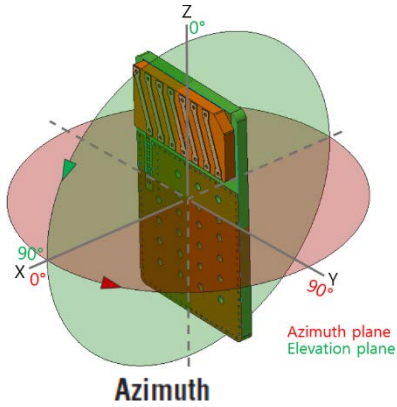
- NOTES: 1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
 3. No copper allowed in designated area on all PCB layer -
 4. For more information please call TE.

Dimensions: mm
 Diagram is not to scale

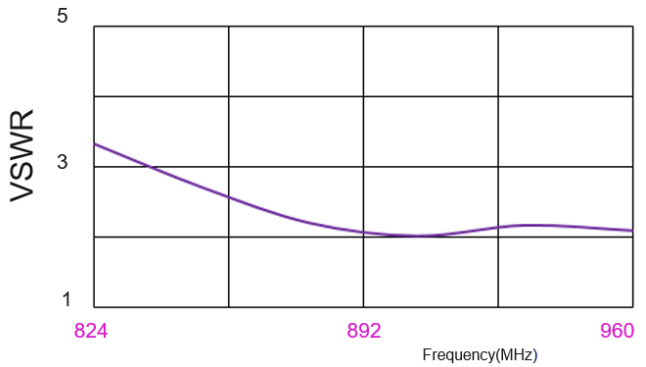
698–960 MHz Helical Antenna for IoT (includes frequencies of IoT solutions) (Continued)

(Option #D)

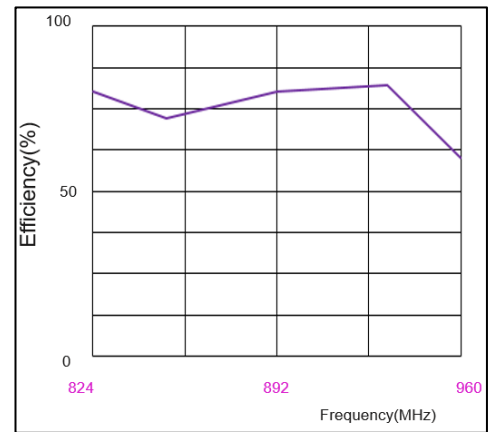
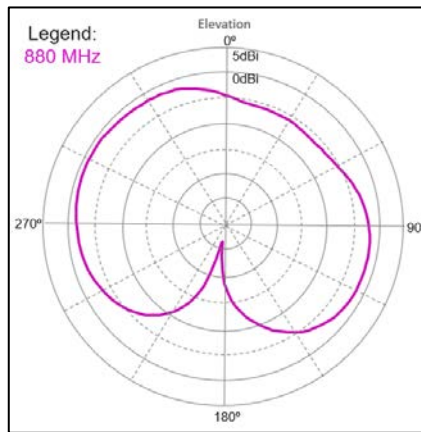
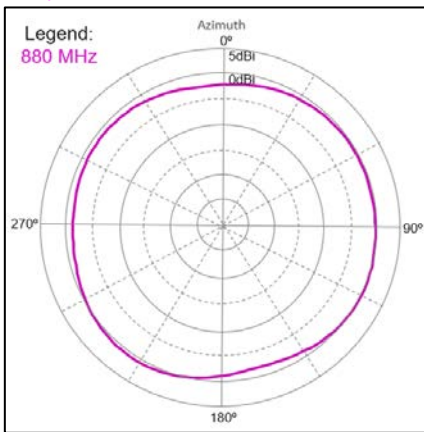
Test Orientation in Free Space



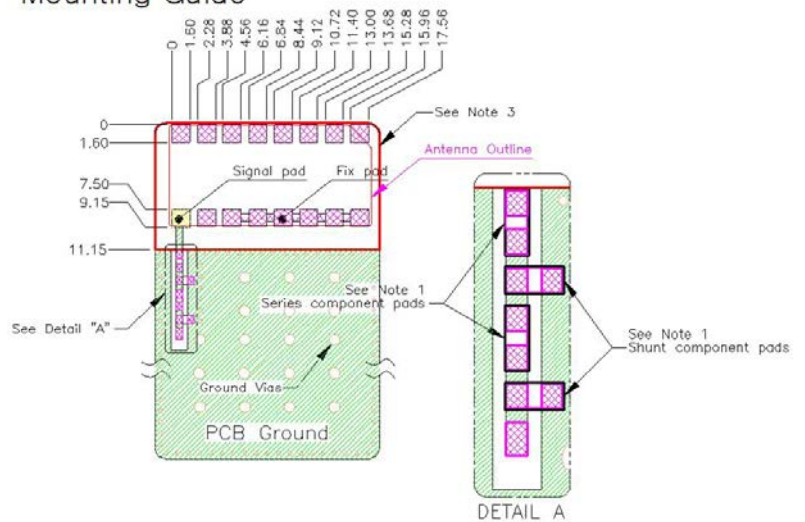
VSWR



(Option #D)



Mounting Guide

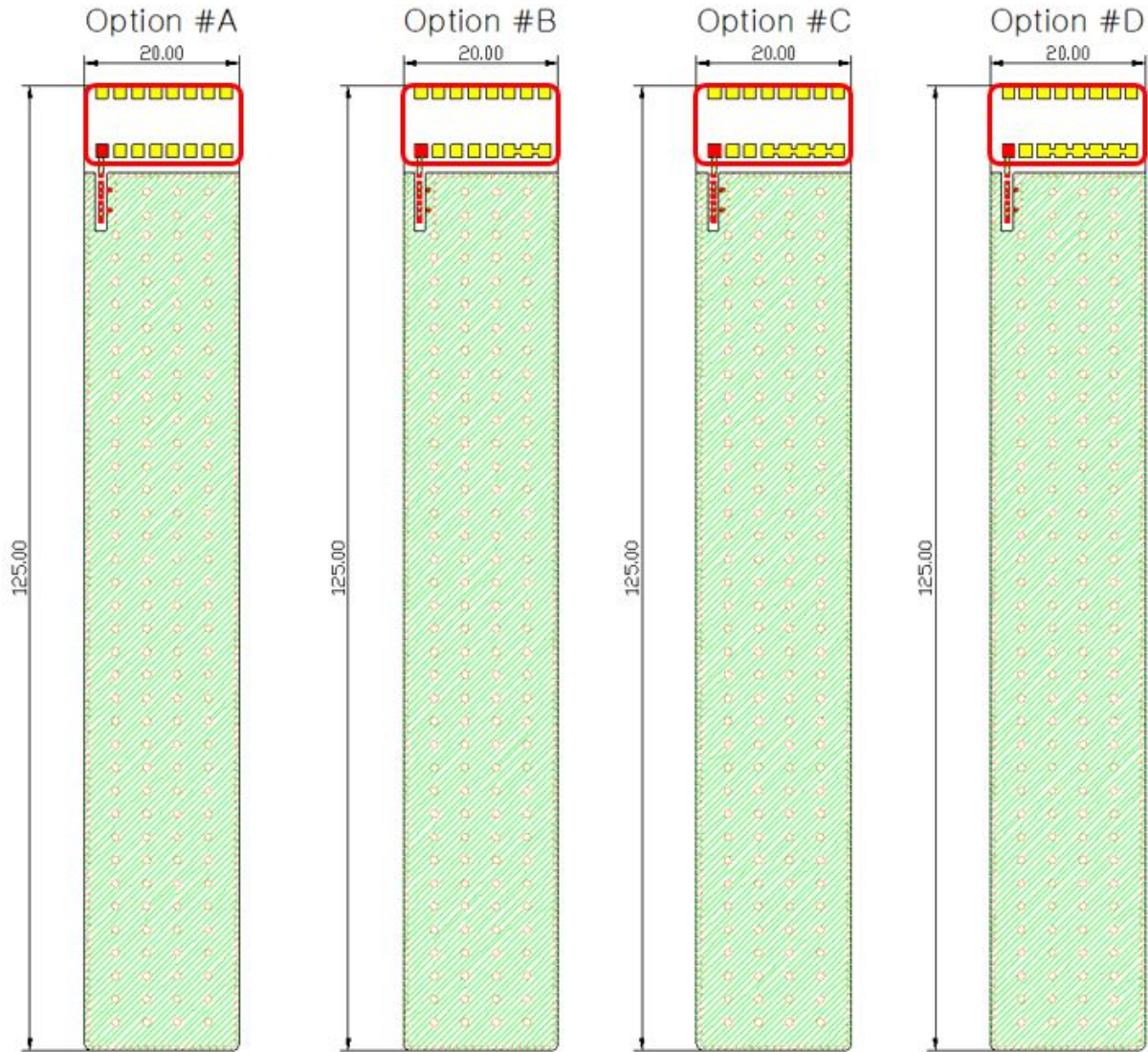


- NOTES: 1. Suggested matching component pads.
 2. Antenna must be mounted on the edge of PCB.
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 4. For more information please call TE.

Dimensions: mm
 Diagram is not to scale

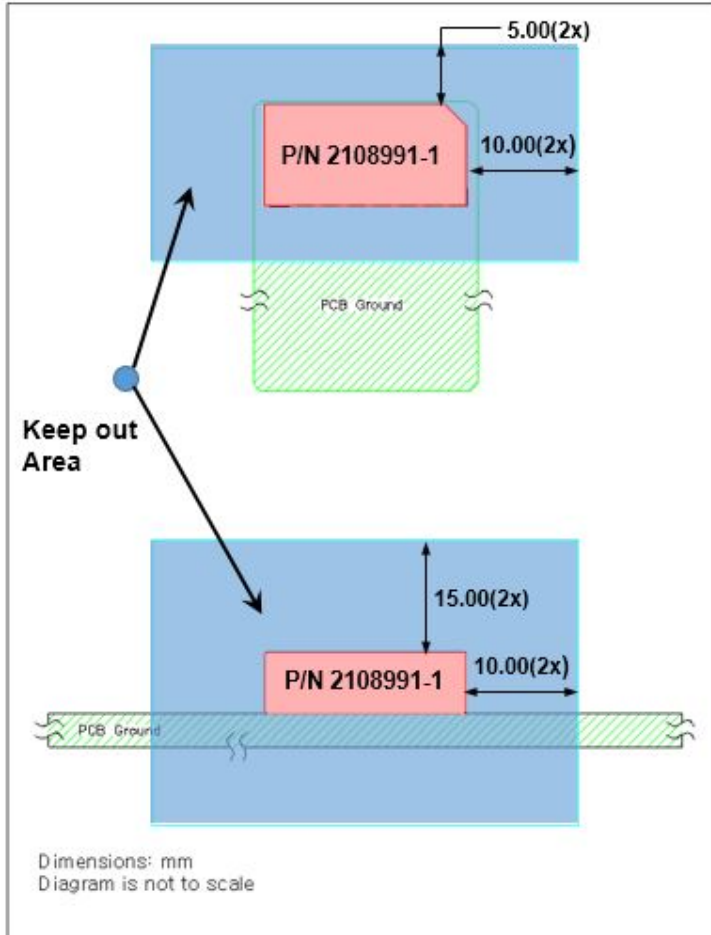
698–960 MHz Helical Antenna for IoT
 (includes frequencies of IoT solutions) (Continued)

PCB TEST Options



698–960 MHz Helical Antenna for IoT
 (includes frequencies of IoT solutions) (Continued)

Keep Out Area



Approx. Dimensions

