

Integrated Miniaturized Antenna for 433 MHz ISM Band Wireless RF Applications

TCA07F is an advanced, surface-mount(SMT) integrated antenna for use in various wireless products, ideal for high-sensitivity and low profile design.



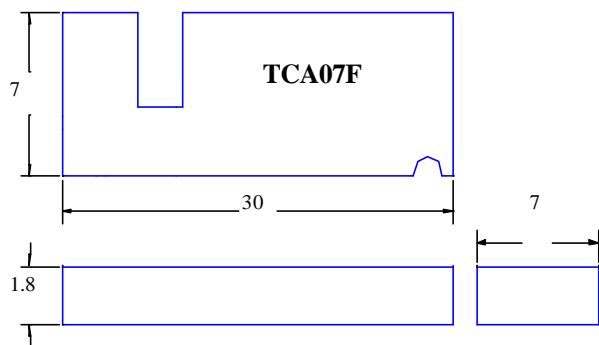
Features:

- Miniaturized size
- Omni-direction
- Low interference design
- Wide bandwidth
- Light weight
- High gain

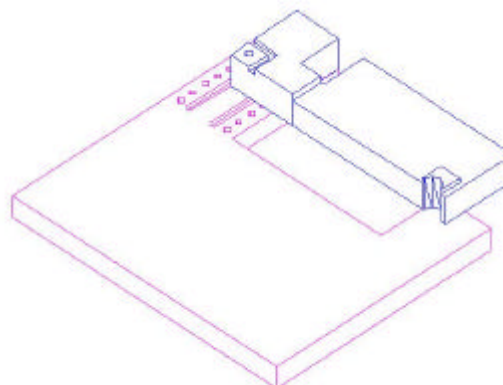
Specification

- | | |
|--------------------|------------|
| • Part No. | TCA07F |
| • Center Frequency | 434MHz |
| • Band width | 25MHz |
| • Typical Gain | -2dBi |
| • Operating Temp. | -20°C~70°C |
| • Storage Temp. | -20°C~90°C |
| • Weight | 0.8g |

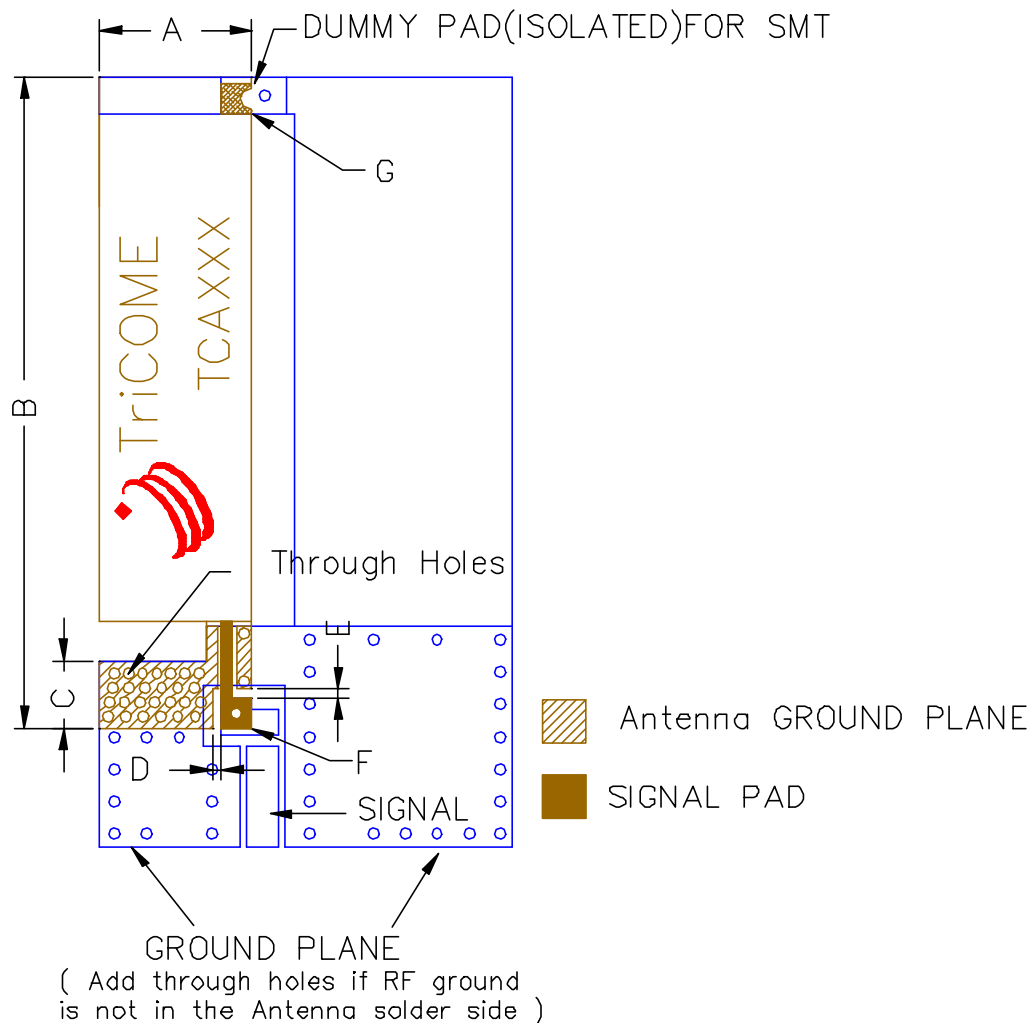
Outline of TCA07F(unit:mm)



Typical SMT Installation



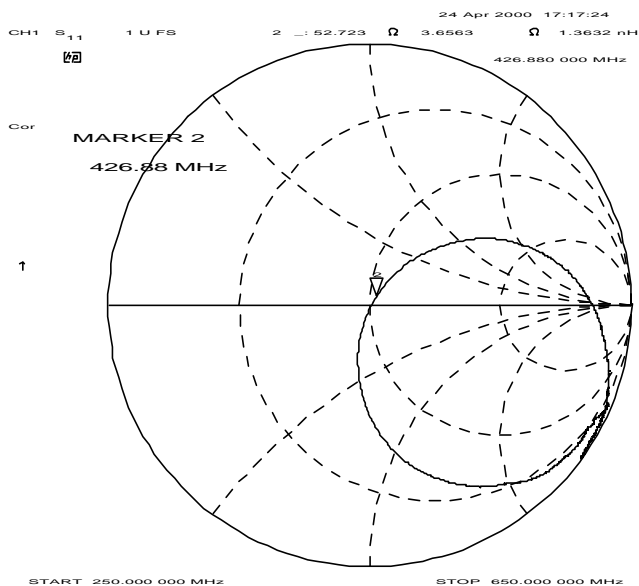
Layout Guide (unit:mm)



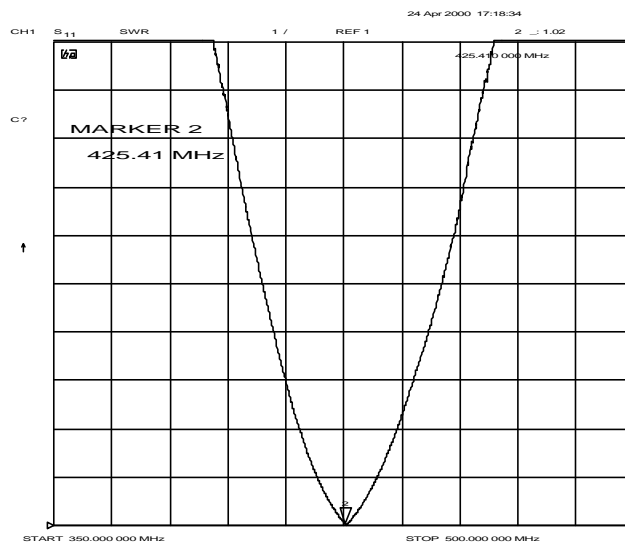
| | |
|---|-----------|
| A | 7mm |
| B | 30mm |
| C | 3.1mm |
| D | 0.4mm |
| E | 0.4mm |
| F | 1.4x1.4mm |
| G | 1.4x1.4mm |

Input Characteristics

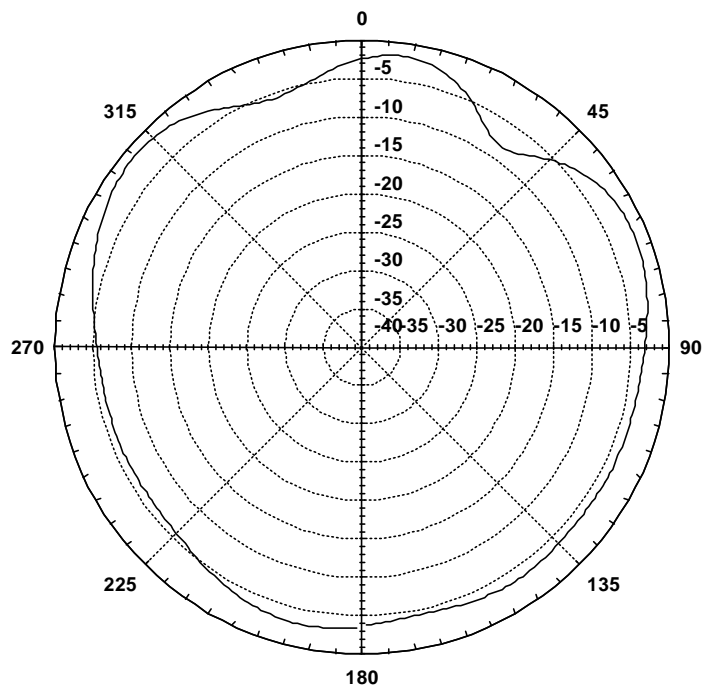
Smith Chart



VSWR



Typical H-Plane Antenna Pattern



This specification, prepared by TriCOME, is believed to be accurate and reliable. But TriCOME reserves the right to make any change or improvement without further notice.