

Integrated Miniaturized Antenna for 460 MHz ISM Band Wireless RF Applications

TCA07FE is an advanced, surface-mount(SMT) integrated antenna for use in various wireless products, ideal for high-sensitivity and low profile design.



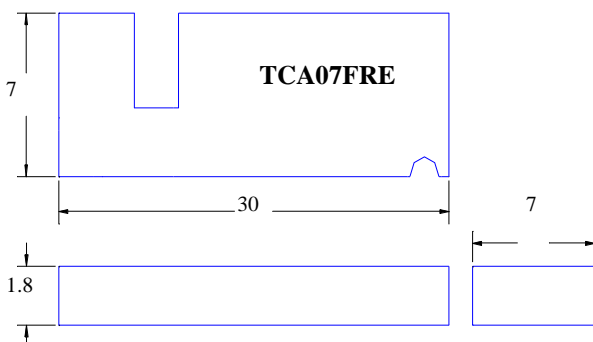
Features:

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

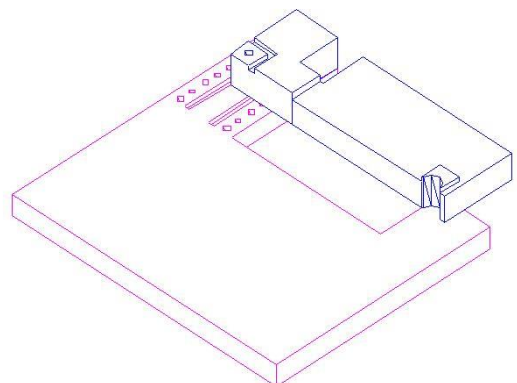
Specification

- | | |
|--------------------|-------------|
| • Part No. | TCA07FE |
| • Center Frequency | 460MHz |
| • Band width | 25MHz |
| • Typical Gain | -2dBi |
| • Operating Temp. | -20°C~+85°C |
| • Storage Temp. | -40°C~+85°C |
| • Weight | 0.8g |

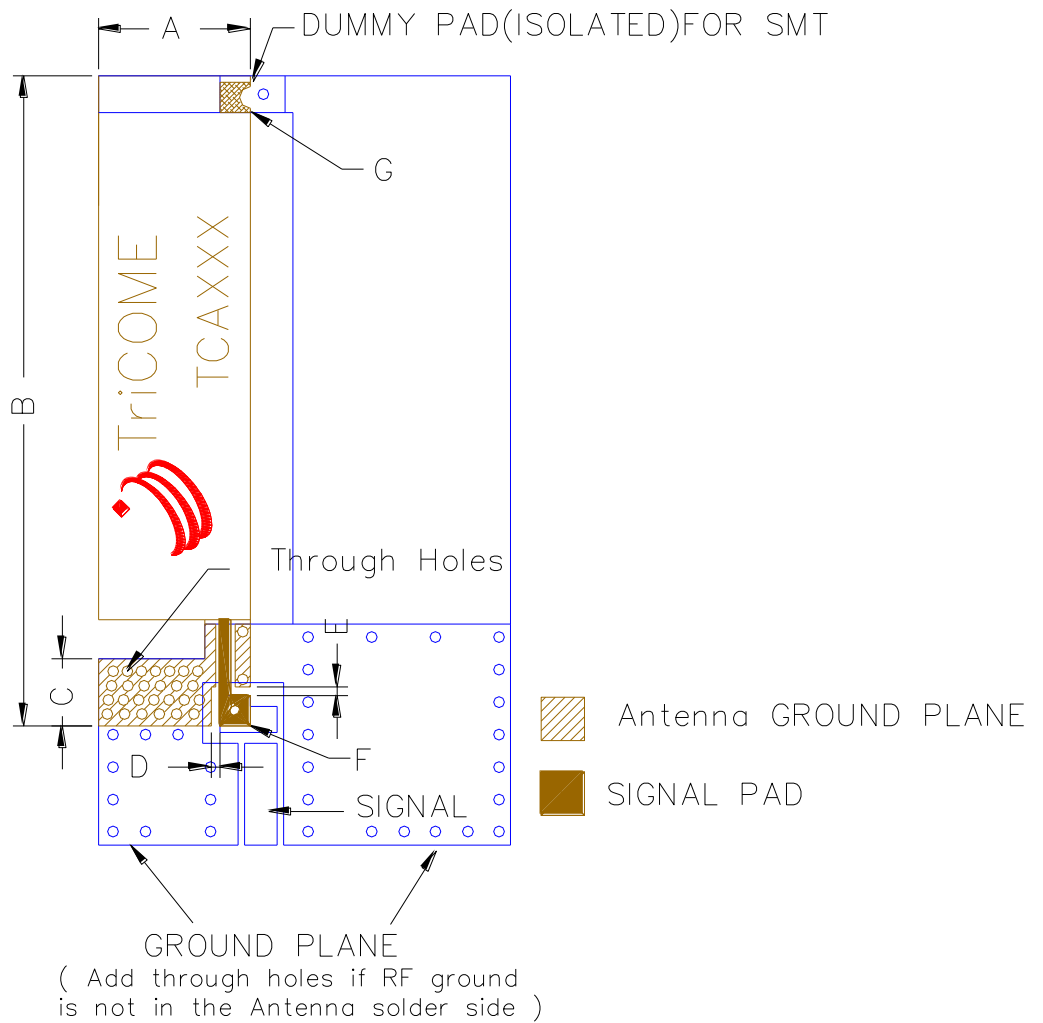
Outline of TCA07FE(unit:mm)



Typical SMT Installation



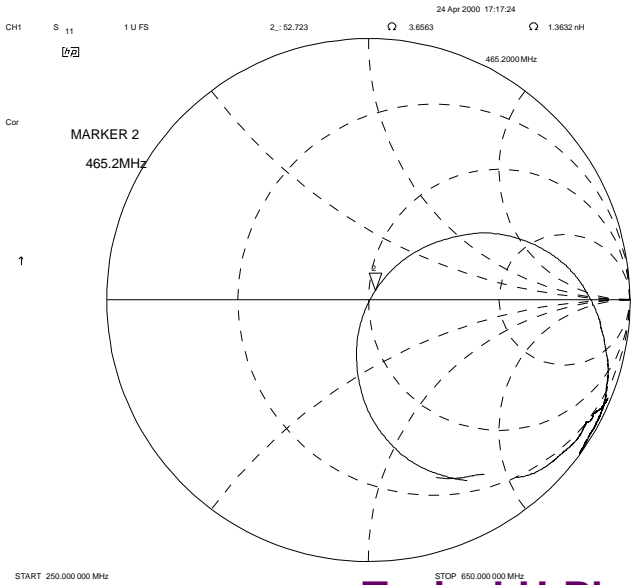
Layout Guide (unit:mm)



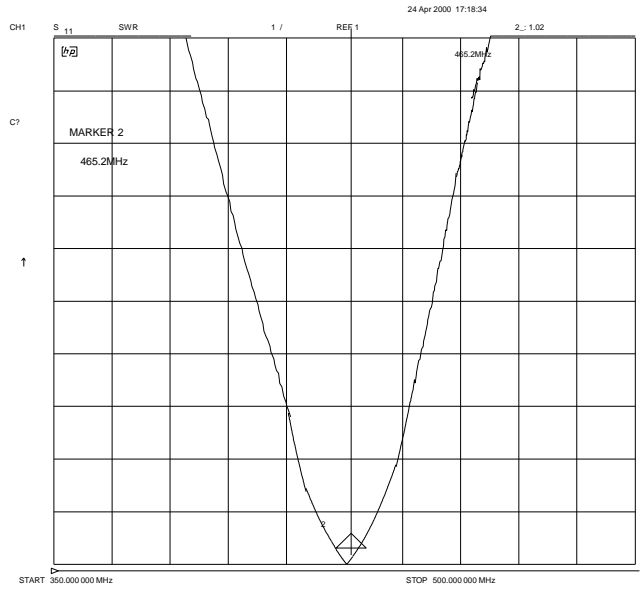
A	7mm
B	30mm
C	3.1mm
D	0.4mm
E	0.4mm
F	1.4x1.4mm
G	1.4x1.4mm

Input Characteristics

Smith Chart



VSWR



Typical H-Plane Antenna Pattern

