

Integrated Miniaturized Antenna for 520 MHz ISM Band Wireless RF Applications

TCA07FRT-B5 series is an advanced, surface-mount(SMT) integrated antenna for use in various wireless products, ideal for high-sensitivity and low profile portable RF devices design.



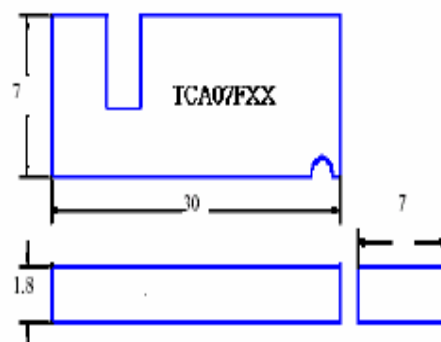
Features

- Miniaturized size.
- Omni-direction.
- Low interference design.
- Wide bandwidth.
- Light weight.
- High gain.
- Suit for 520 MHz RF application.

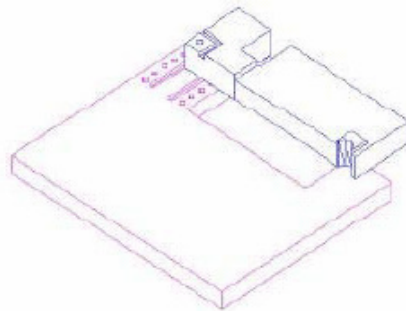
Specification

- | | |
|-----------------------------------|-------------|
| ● Part NO. | TCA07FRT-B5 |
| ● Center Frequency in Free space. | 520MHz |
| ● Band width. | 25MHz |
| ● Typical Gain. | -2dBi |
| ● Operating Temp. | -20°C~+85°C |
| ● Storage Temp. | -40°C~+85°C |
| ● Weight. | 0.8 g |

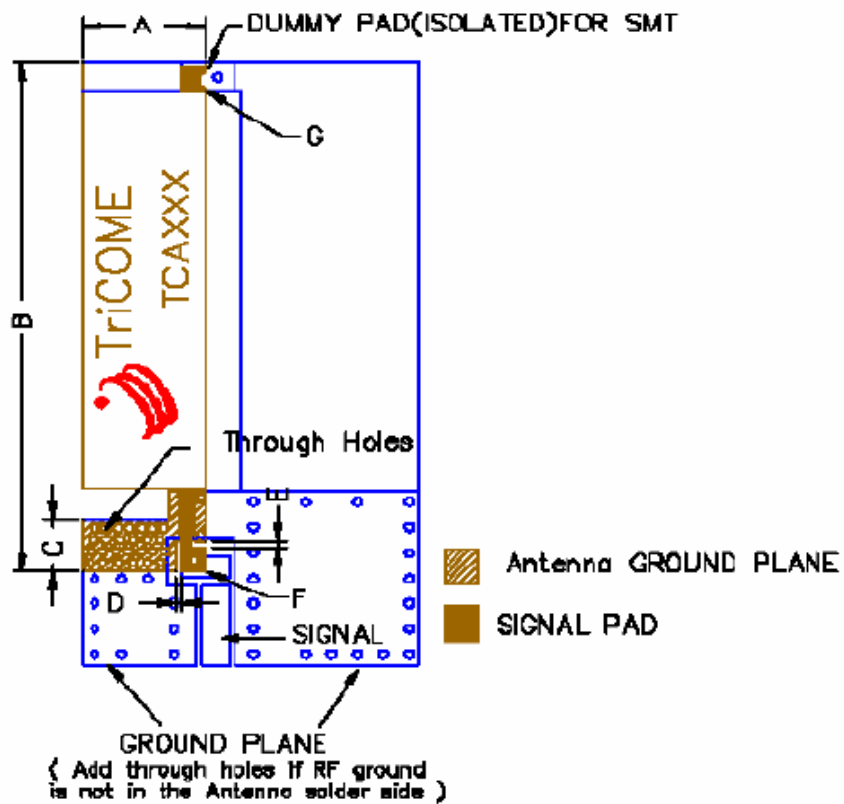
Outline of TCA07FXX Series (unit:mm)



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 TCA07FRT-B5

Smith Chart

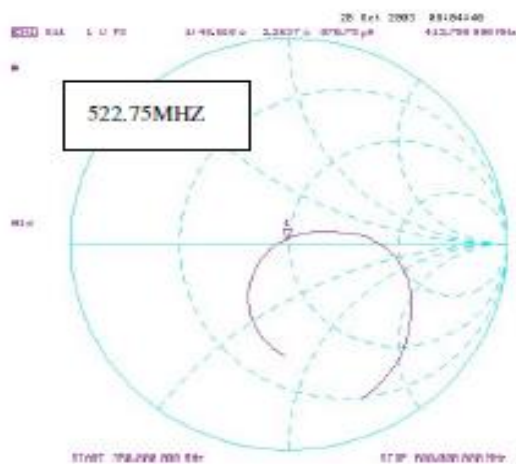


VSWR



TCA07FRE

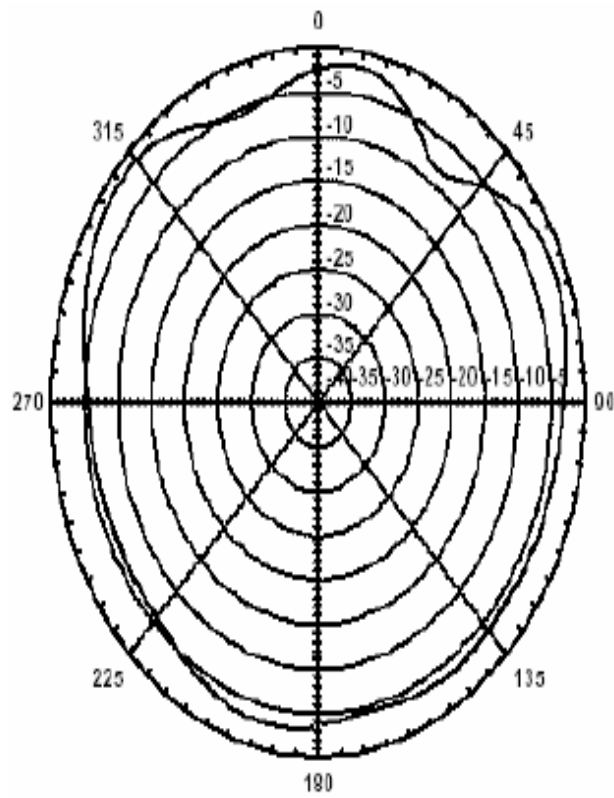
Smith Chart



VSWR



TCA07F Series 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.