

*Integrated Miniaturized Antenna for
433 MHz ISM Band Wireless RF Applications*

TCA07F 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.



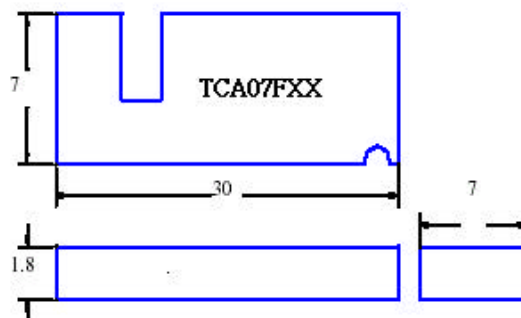
Features

- Miniaturized size.
- Omni-direction.
- Low interference design.
- Wide bandwidth.
- Light weight.
- High gain.
- Suit for 433 MHz RF application.

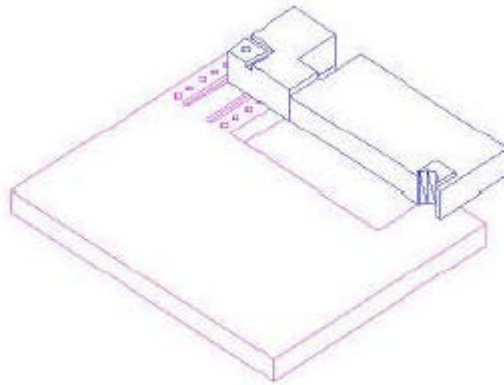
Specification

● Part NO.	TCA07F	TCA07FRE
● Center Frequency in Free space.	434MHz	460MHz
● Band width.	25MHz	30MHz
● Typical Gain.	-2dBi	-2dBi
● Operating Temp.	-20 ℃~+85 ℃	-20 ℃~+85 ℃
● Storage Temp.	-40 ℃~+85 ℃	-40 ℃~+85 ℃
● Weight.	0.8 g	0.8 g

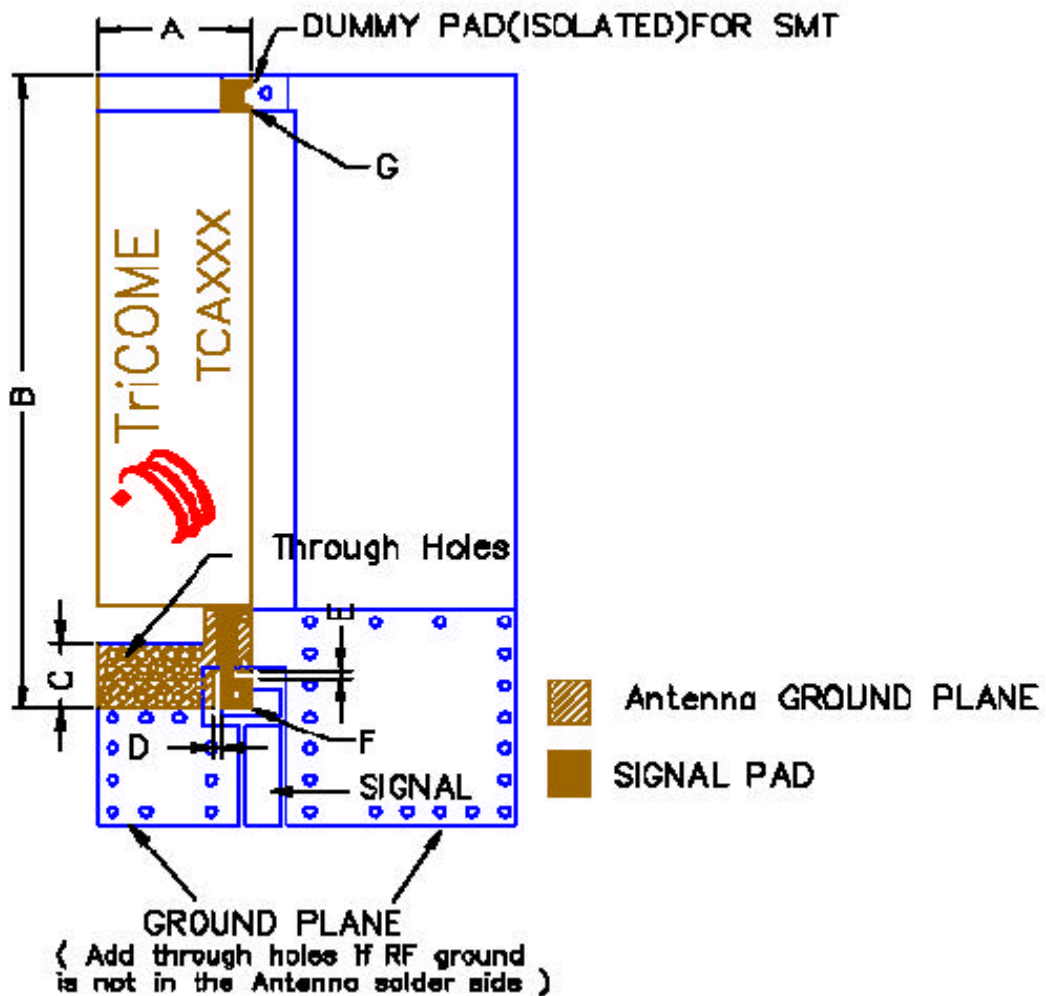
Outline of TCA07FXX Series (unit:mm)



Typical SMT Installation



Layout Guide (unit:mm)

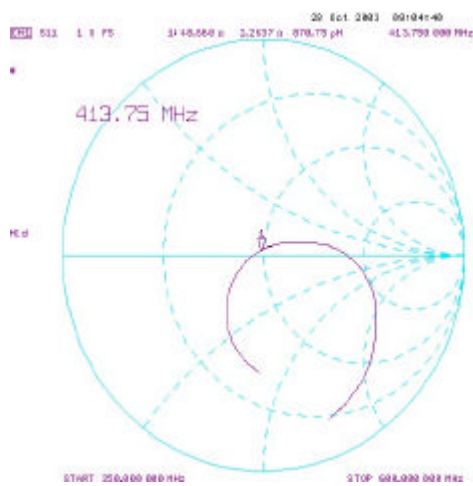


A	7mm
B	30mm
C	3.1mm
D	0.4mm
E	0.4mm
F	1.4x1.4mm
G	1.4x1.4mm

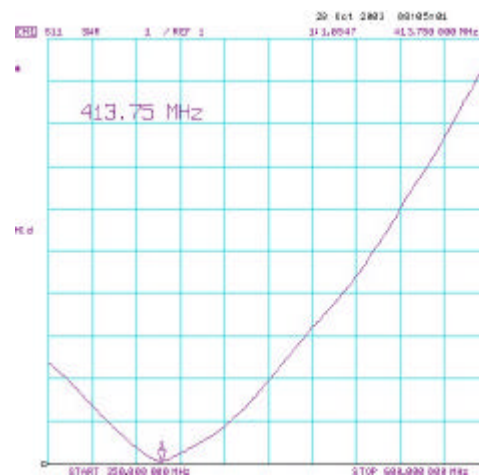
Input Characteristics

TCA07F

Smith Chart

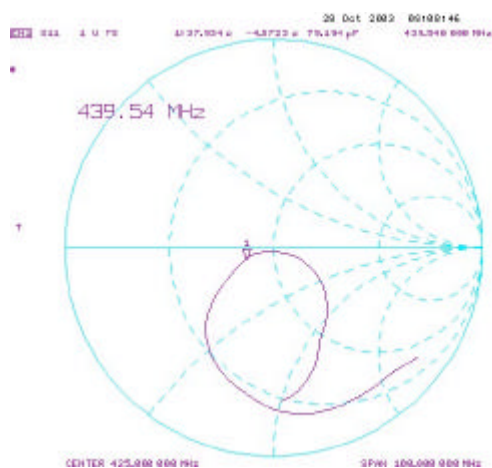


VSWR

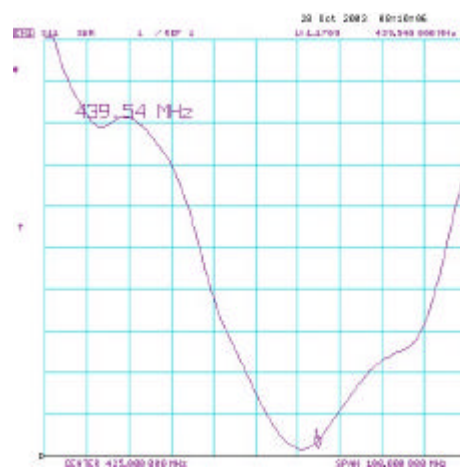


TCA07FRE

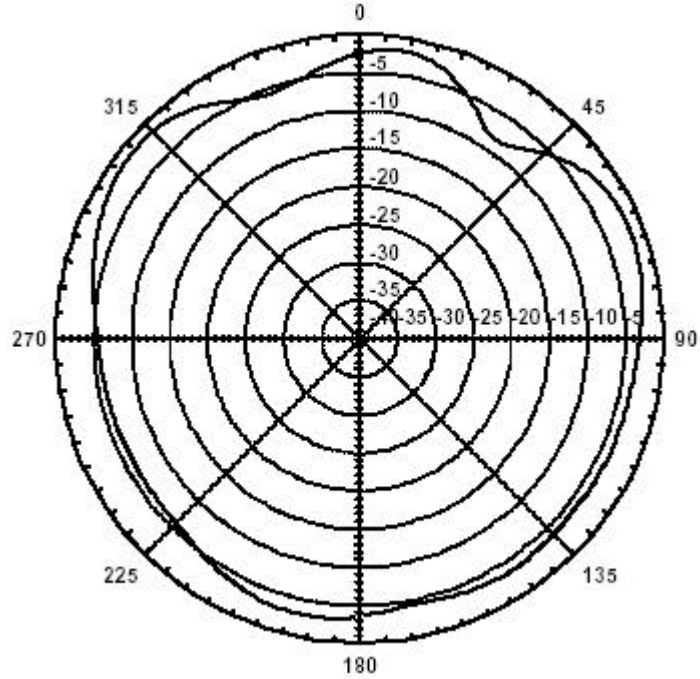
Smith Chart



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.