



Integrated Miniaturized Antenna for 2.4GHz Wireless RF Applications

TCA10F is an advanced, surface-mount(SMT) integrated antenna for use in various wireless products, ideal for high-sensitivity and low profile design.



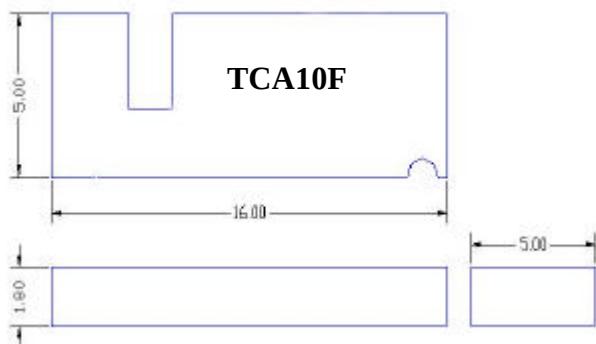
Features:

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

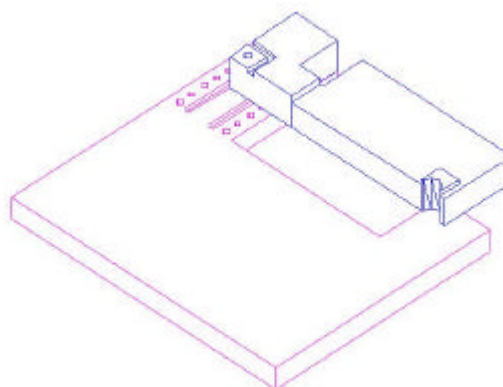
Specification

• Part No.	TCA10F
• Center Frequency	2450MHz
• Band width	300MHz
• Peak Gain	3dBi
• Typical Gain	2dBi
• Operating Temp.	-20°C~+85°C
• Storage Temp.	-40°C~+85°C
• Weight	0.6g

Outline of TCA10F (unit:mm)

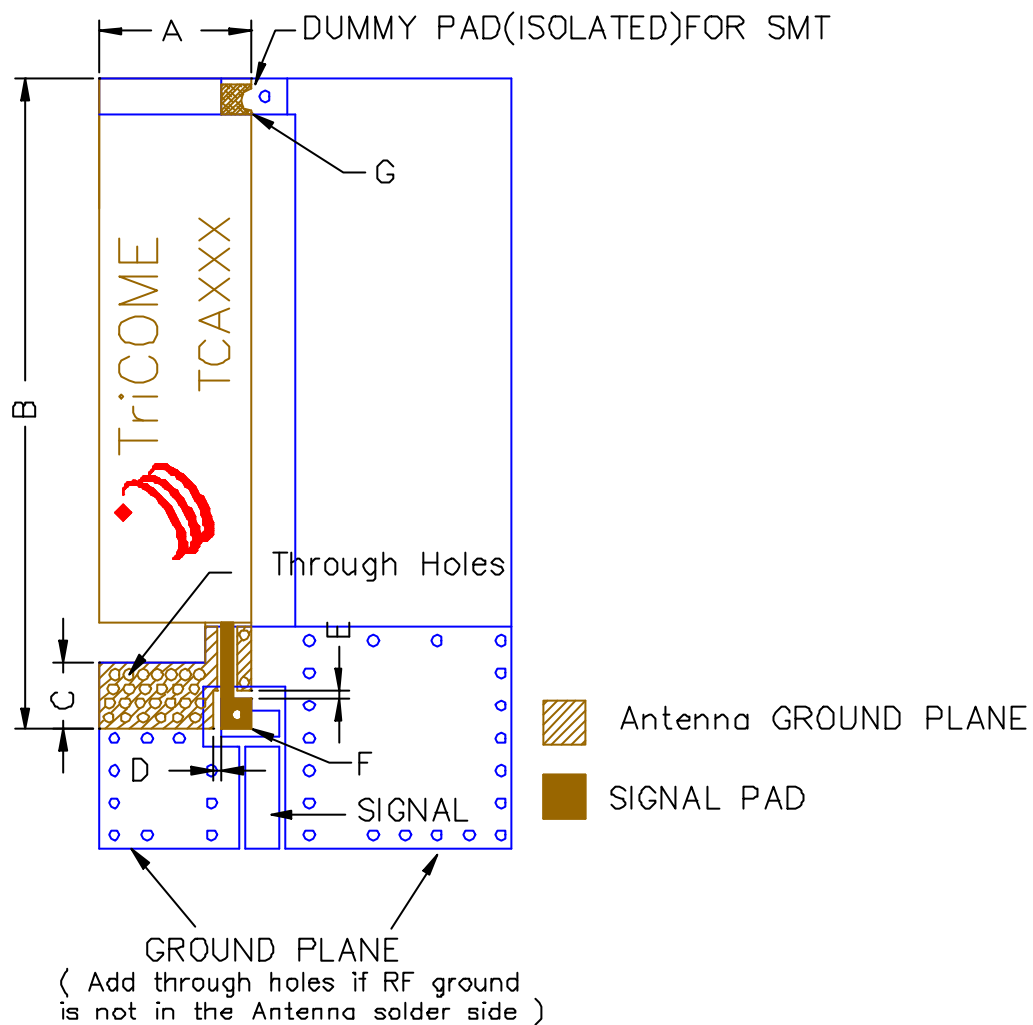


Typical SMT Installation





Layout Guide (unit:mm)

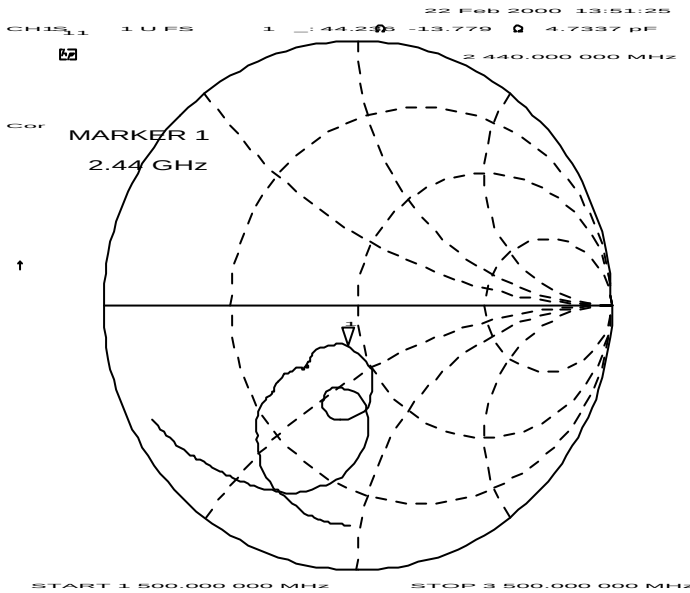


A	5mm
B	16mm
C	3.1mm
D	0.4mm
E	0.4mm
F	1.4x1.4mm
G	1.4x1.4mm

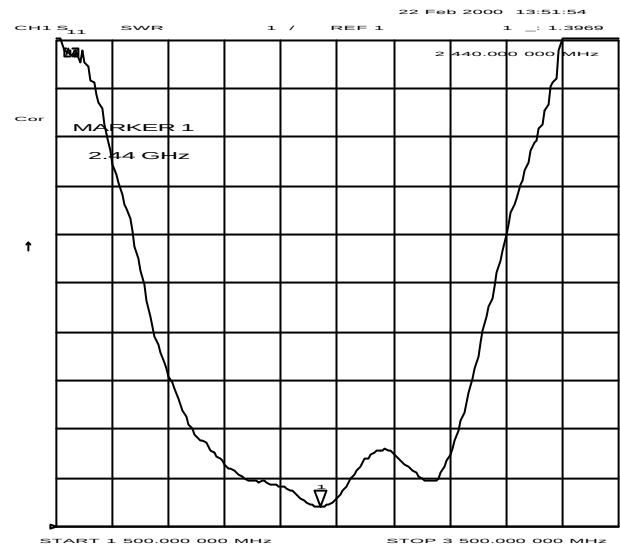


Input Characteristics

Smith Chart

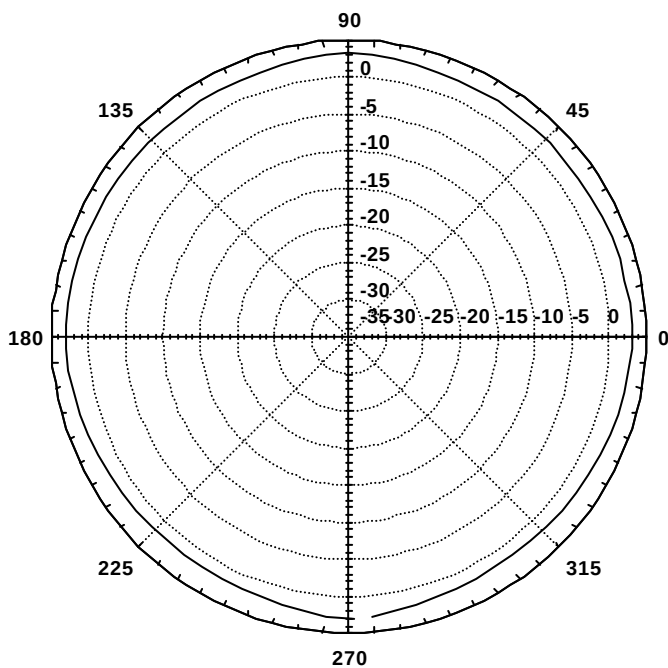


VSWR

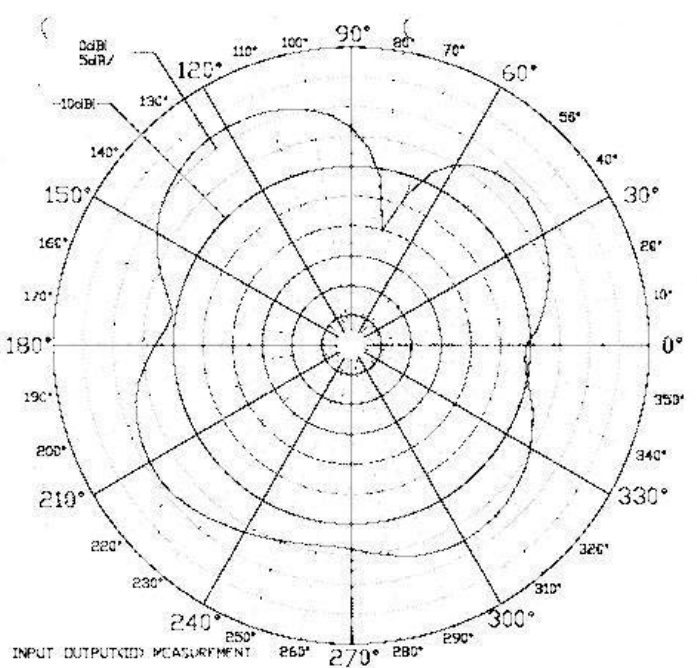


Measured Antenna Patterns at 2.4GHz

H-Plane



E-Plane



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.