

6.2 RF Considerations

The RF Engine integral to the SP250Ψ operates very efficiently with a properly matched F-Style PCB trace antenna. It is imperative to keep uncontrolled impedance traces as short as possible because they can be lossy and inductive. Long feed traces also increase the risk of mechanical failure interrupting RF transmission. The following is a reference antenna design which has shown satisfactory performance in tests with the SP250Ψ:

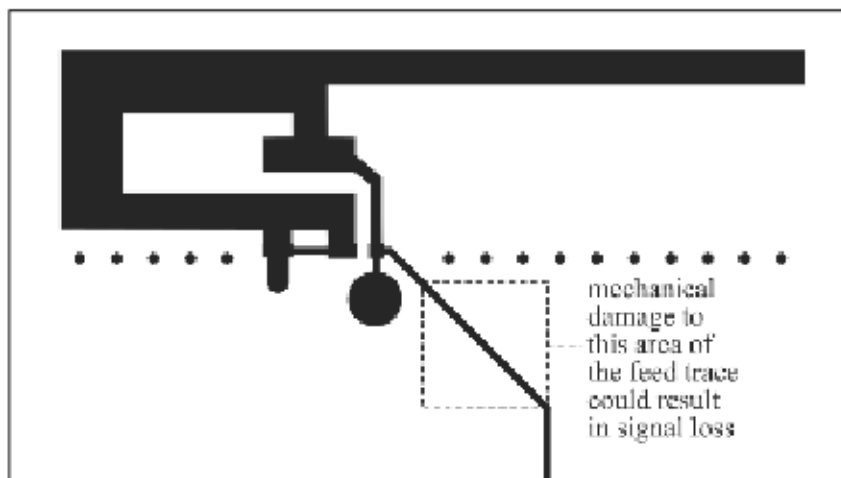


Fig.6a Trace Antenna Reference Design

Heads Up!

this thing is potentially really fragile

I think we need to fatten up the trace. I've already had to repair my test unit with a piece of wire.

actually this has come in handy for testing
so i can just pull the wire to disable RF