

Cincinnati Electronics

HIRF TESTING

L-3 Cincinnati Electronics is a leader in providing High Intensity Radiated Field (HIRF) and aircraft attenuation testing services. HIRF testing simulates high RF peak pulsed and average fields typical of radar environments and is integral to the certification of flight essential avionics systems. Many leading aircraft engine companies and aerospace companies have been selecting L-3 CE to perform their flight systems testing for more than twenty years.



OVERVIEW

- Systems subjected to frequencies from 10kHz to 40 GHz with continuous scan capability.
- Complete analysis for certification compliance.
- Aircraft and engine nacelle attenuation services to quantify the bench HIRF environment.
- Comprehensive simulation of high RF peak pulsed and average field environments typical of radar installations.



HIRF TESTING

Summary of HIRF Available at < or = to 1 Meter

FREQUENCY RANGE	PEAK FIELD V/m*	AVERAGE FIELD V/m**
10kHz - 400MHz	N/A	200 to 300
400MHz - 700MHz	600 to 4500	200 to 300
700MHz - 1000MHz	600 to 5500	200 to 300
1GHz - 2GHz	600 to 3500	200 to 400
2GHz - 4GHz	600 to 3500	200 to 400
4GHz - 6GHz	600 to 3500	200 to 400
6GHz - 8GHz	600 to 3500	200 to 400
8GHz - 12GHz	600 to 3500	200 to 400
12GHz - 18GHz	600 to 3500	200 to 400
18GHz - 40GHz	50 to 200	50 to 200

* PM Duty Cycle of .001

Other duty cycles available.

** CW/AM/FM modulations available.

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