



Application note: Electrical shielding performance of ITO

Electrical Shielding Performance of ITO

Shielding performance for electrical field in the far field case can be easily calculated. Values for a range of resistances and frequencies are shown below.

Table of calculated far field shielding effectiveness (dB)

Sheet resistance (ohms/square)	Frequency (Hz)						
	1MHz	10MHz	100MHz	1GHz	2GHz	18GHz	
500	63	43	23				
250	69	49	29				
100	77	57	37	17			
50	83	63	43	23	17		
20	91	71	51	31	25		
10	97	77	57	37	31		
5	103	83	63	43	37	18	

Once the emitting source and the window are close together we have a near field case. This is much more complicated to calculate and depends on many details. Measured values in one instance are shown below.

