



BELKIN INTERNATIONAL

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Applicant	Belkin International, Inc.
FCC ID: K7SF7U027	IC: 3623A-F7U027
RF Exposure Requirements (FCC KDB 680106 D01)	
Requirements	Statements
(a) Power transfer frequency is less than 1 MHz	127.8KHz
(b) Output power from each primary coil is less than 5 watts	7.5W
(c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils	Single coil
(d) Client device is inserted in or placed directly in contact with the transmitter	Client device is placed directly in contact with the transmitter
(e) The maximum coupling surface area of the transmit (charging) device is between 60 cm ² and 400 cm ² .	16.26cm ² (diameter = 45.5mm)
(f) Aggregate leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.	Please refer to RF Exposure Report.

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Charging Mode with receiver

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	3.79	3.81	3.53	3.59	11.71
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-610.21	-610.19	-610.47	-610.41	-602.29
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-427.147	-427.133	-427.329	-427.287	-421.603

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.251	0.263	0.269	0.279	0.483
Max H-field (A/m)	0.2008	0.2104	0.2152	0.2232	0.3864
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4292	-1.4196	-1.4148	-1.4068	-1.2436
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.00044	-0.99372	-0.99036	-0.98476	-0.87052

Charging Mode with receiver shift 12mm to top

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	2.79	3.8	4.02	3.11	12.11
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.21	-610.2	-609.98	-610.89	-601.89
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-427.847	-427.14	-426.986	-427.623	-421.323

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.334	0.323	0.463	0.474	0.796
Max H-field (A/m)	0.2672	0.2584	0.3704	0.3792	0.6368
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3628	-1.3716	-1.2596	-1.2508	-0.9932
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.95396	-0.96012	-0.88172	-0.87556	-0.69524

Charging Mode with receiver shift 12mm to bottom

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	4.36	3.31	3.5	4.23	9.73
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-609.64	-610.69	-610.5	-609.77	-604.27
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-426.748	-427.483	-427.35	-426.839	-422.989

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.276	0.291	0.378	0.367	1.22
Max H-field (A/m)	0.2208	0.2328	0.3024	0.2936	0.976
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4092	-1.3972	-1.3276	-1.3364	-0.654
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.98644	-0.97804	-0.92932	-0.93548	-0.4578

Charging Mode with receiver shift 12mm to left

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	3.46	3.21	3.44	3.78	10.5
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-610.54	-610.79	-610.56	-610.22	-603.5
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-427.378	-427.553	-427.392	-427.154	-422.45

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.437	0.465	0.336	0.344	0.847
Max H-field (A/m)	0.3496	0.372	0.2688	0.2752	0.6776
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.2804	-1.258	-1.3612	-1.3548	-0.9524
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.89628	-0.8806	-0.95284	-0.94836	-0.66668

Charging Mode with receiver shift 12mm to right

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	2.97	3.34	3.49	3.18	12.63
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.03	-610.66	-610.51	-610.82	-601.37
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-427.721	-427.462	-427.357	-427.574	-420.959

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.464	0.459	0.31	0.325	0.665
Max H-field (A/m)	0.3712	0.3672	0.248	0.26	0.532
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.2588	-1.2628	-1.382	-1.37	-1.098
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.88116	-0.88396	-0.9674	-0.959	-0.7686

Charging Mode airgap 3mm

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	3.94	2.91	3.85	3.36	10.29
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-610.06	-611.09	-610.15	-610.64	-603.71
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-427.042	-427.763	-427.105	-427.448	-422.597

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.307	0.258	0.254	0.271	0.903
Max H-field (A/m)	0.2456	0.2064	0.2032	0.2168	0.7224
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3844	-1.4236	-1.4268	-1.4132	-0.9076
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-0.96908	-0.99652	-0.99876	-0.98924	-0.63532

Standby Mode

E-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max E-field (V/m)	0.38	0.39	0.38	0.42	0.36
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.62	-613.61	-613.62	-613.58	-613.64
70 % Limit (V/m)	429.8	429.8	429.8	429.8	429.8
70 % Margin (V/m)	-429.534	-429.527	-429.534	-429.506	-429.548

H-Field Measurement (10cm)					
EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
Max H-field (uT)	0.241	0.245	0.245	0.241	0.446
Max H-field (A/m)	0.1928	0.196	0.196	0.1928	0.3568
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4372	-1.434	-1.434	-1.4372	-1.2732
70 % Limit (A/m)	1.141	1.141	1.141	1.141	1.141
70 % Margin (A/m)	-1.00604	-1.0038	-1.0038	-1.00604	-0.89124