

Anhang 1: Kraftmessungen

Leiterplattennr., Komponente	Komponentennr.	$F_{\max}$ / N	F_{frac} / N
LP1, LED A	1	20,004	8,875
LP1, SOD80, 1	2	19,991	4,791
LP1, SOD80, 2	3	19,990	5,248
LP1, IPACK	4	13,564	9,875
LP1, BGA-Mitte	5	13,764	9,175
LP1, BGA-unten Mitte	5	19,998	4,975
LP1, BGA_unten links	5	19,998	12,116
LP1, BGA_unten rechts	5	19,993	13,914
LP1, TQFP-Mitte	6	19,987	7,573
LP1, TQFP-unten Mitte	6	19,998	6,501
LP1, TQFP_unten links	6	19,995	12,305
LP1, TQFP_unten rechts	6	19,999	12,422
LP1, SOT343	7	16,390	5,992
LP1, Widerstand R1	8	10,305	7,511
LP1, Kondensator C2	9	20,002	4,119
LP1, MLF	10	19,989	7,221
LP2, LED A	1	19,998	3,438
LP2, SOD80, 1	2	19,985	4,560
LP2, SOD80, 2	3	19,990	5,364
LP2, IPACK	4	11,129	10,147
LP2, BGA-Mitte	5	11,627	9,514
LP2, BGA-unten Mitte	5	12,474	8,720
LP2, BGA_unten links	5	19,996	12,988
LP2, BGA_unten rechts	5	19,991	13,352
LP2, TQFP-Mitte	6	19,994	7,289
LP2, TQFP-unten Mitte	6	19,995	7,396
LP2, TQFP_unten links	6	19,993	7,214
LP2, TQFP_unten rechts	6	19,999	6,471
LP2, SOT343	7	19,999	4,030
LP2, Widerstand R1	8	19,990	8,266
LP2, Kondensator C2	9	19,996	4,438
LP2, MLF	10	19,997	7,471
LP3, LED A	1	19,991	4,402
LP3, SOD80, 1	2	19,995	3,099
LP3, SOD80, 2	3	19,997	4,335
LP3, IPACK	4	10,796	7,474
LP3, BGA-Mitte	5	9,979	6,910
LP3, BGA-unten Mitte	5	9,863	7,189
LP3, BGA_unten links	5	19,998	12,674
LP3, BGA_unten rechts	5	19,995	13,326
LP3, TQFP-Mitte	6	19,991	5,016
LP3, TQFP-unten Mitte	6	19,990	4,134
LP3, TQFP_unten links	6	19,996	8,523

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LP3, TQFP_unten rechts	6	19,994	9,302
Leiterplattennr., Komponente	Komponentennr.	$F_{\max}$ / N	F_{frac} / N
LP3, SOT343	7	19,997	5,661
LP3, Widerstand R1	8	11,929	7,353
LP3, Kondensator	9	19,996	3,630
LP3, MLF	10	20,001	4,495
LP4, LED A	1	19,996	4,815
LP4, SOD80, 1	2	19,999	5,271
LP4, SOD80, 2	3	19,998	4,820
LP4, IPACK	4	10,416	7,272
LP4, BGA-Mitte	5	19,991	6,118
LP4, BGA-unten Mitte	5	19,996	5,207
LP4, BGA_unten links	5	19,992	12,384
LP4, BGA_unten rechts	5	19,999	12,815
LP4, TQFP-Mitte	6	20,001	5,592
LP4, TQFP-unten Mitte	6	20,002	4,368
LP4, TQFP_unten links	6	19,999	14,062
LP4, TQFP_unten rechts	6	19,991	9,374
LP4, SOT343	7	19,998	6,377
LP4, Widerstand R1	8	11,414	4,815
LP4, Kondensator	9	19,989	1,847
LP4, MLF	10	19,994	6,474
LP5, LED A	1	19,997	6,688
LP5, SOD 80, 1	2	19,996	2,874
LP5, SOD80, 2	3	19,991	3,198
LP5, Kondensator	9	19,996	3,783
LP5, TQFP Mitte	6	19,986	2,680
LP5, TQFP_unten links	6	19,996	13,270
LP5, TQFP_unten rechts	6	19,995	9,466
LP5, IPACK	4	12,276	7,835
LP5, Widerstand	8	13,884	5,809

Tab. 2: Gemessene Kraftanteile F_{frac} auf den belasteten Komponenten während der maximalen Last von $F_{\max} = 20$ N, hervorgerufen durch den oberen Stempel.