

## LAMPIRAN-LAMPIRAN

Lampiran 1 Besaran Induksi Berdasarkan Ukuran *Gap*

No	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$
	0.54 - 0.61	153.60-166.42	7.35-7.75	0.54 - 0.61	153.60-166.42	7.35-7.75	0.54 - 0.61	153.60-166.42	7.35-7.75
1	0.54	163.98	7.72	0.54	163.98	7.72	0.54	163.98	7.72
2	0.54	163.85	7.71	0.54	163.85	7.71	0.54	163.85	7.71
3	0.54	163.72	7.70	0.54	163.72	7.70	0.54	163.72	7.70
4	0.54	163.59	7.69	0.54	163.59	7.69	0.54	163.59	7.69
5	0.54	163.46	7.68	0.54	163.46	7.68	0.54	163.46	7.68
6	0.54	163.98	7.72	0.54	163.98	7.72	0.54	163.98	7.72
7	0.54	163.85	7.71	0.54	163.85	7.71	0.54	163.85	7.71
8	0.54	163.72	7.70	0.54	163.72	7.70	0.54	163.72	7.70
9	0.54	163.59	7.69	0.54	163.59	7.69	0.54	163.59	7.69
10	0.54	163.46	7.68	0.54	163.46	7.68	0.54	163.46	7.68
11	0.54	163.98	7.72	0.54	163.98	7.72	0.54	163.59	7.69
12	0.54	163.85	7.71	0.54	163.85	7.71	0.54	163.46	7.68
13	0.54	163.72	7.70	0.54	163.72	7.70	0.54	163.46	7.68
14	0.55	161.60	7.62	0.54	163.59	7.69	0.55	161.99	7.65
15	0.55	161.47	7.61	0.55	161.73	7.63	0.55	161.86	7.64
16	0.55	161.99	7.65	0.55	161.99	7.65	0.55	161.99	7.65
17	0.55	161.86	7.64	0.55	161.86	7.64	0.55	161.86	7.64
18	0.55	161.73	7.63	0.55	161.73	7.63	0.55	161.73	7.63
19	0.55	161.60	7.62	0.55	161.60	7.62	0.55	161.60	7.62
20	0.55	161.47	7.61	0.55	161.47	7.61	0.55	161.47	7.61
21	0.55	161.99	7.65	0.55	161.99	7.65	0.55	161.86	7.64
22	0.55	161.86	7.64	0.55	161.86	7.64	0.55	161.73	7.63
23	0.55	161.73	7.63	0.55	161.73	7.63	0.55	161.60	7.62
24	0.55	161.60	7.62	0.55	161.60	7.62	0.55	161.47	7.61
25	0.55	161.47	7.61	0.55	161.47	7.61	0.55	161.73	7.63
26	0.55	161.99	7.65	0.55	161.99	7.65	0.55	161.60	7.62
27	0.56	160.02	7.58	0.55	161.86	7.64	0.55	161.47	7.61
28	0.56	159.99	7.57	0.56	159.93	7.54	0.56	159.99	7.56
29	0.56	159.99	7.56	0.56	160.02	7.58	0.56	159.96	7.55
30	0.56	159.96	7.55	0.56	159.99	7.57	0.56	159.93	7.54
31	0.56	160.02	7.58	0.56	160.02	7.58	0.56	160.02	7.58
32	0.56	159.99	7.57	0.56	159.99	7.57	0.56	159.99	7.57
33	0.56	159.99	7.56	0.56	159.99	7.56	0.56	159.99	7.56
34	0.56	159.96	7.55	0.56	159.96	7.55	0.56	159.96	7.55
35	0.56	159.93	7.54	0.56	159.93	7.54	0.56	159.93	7.54
36	0.56	160.02	7.58	0.56	160.02	7.58	0.56	160.02	7.58
37	0.56	159.99	7.57	0.56	159.99	7.57	0.56	159.99	7.57
38	0.56	159.99	7.56	0.56	159.99	7.56	0.56	159.99	7.56
39	0.56	159.96	7.55	0.56	159.96	7.55	0.56	159.96	7.55
40	0.56	159.93	7.54	0.56	159.93	7.54	0.56	159.93	7.54
41	0.56	160.02	7.58	0.56	160.02	7.58	0.56	160.02	7.58
42	0.56	159.99	7.57	0.56	159.99	7.57	0.56	159.99	7.57
43	0.56	159.99	7.56	0.56	159.99	7.56	0.56	159.99	7.56
44	0.56	159.96	7.55	0.56	159.96	7.55	0.56	159.96	7.55
45	0.56	159.93	7.54	0.56	159.93	7.54	0.56	159.93	7.54
46	0.56	160.02	7.58	0.56	159.93	7.54	0.56	159.96	7.55
47	0.56	159.99	7.57	0.56	160.02	7.58	0.56	159.93	7.54
48	0.56	159.99	7.56	0.56	159.99	7.57	0.56	160.02	7.58
49	0.56	159.96	7.55	0.56	159.99	7.56	0.56	159.99	7.57
50	0.56	159.93	7.54	0.56	159.96	7.55	0.56	159.99	7.56
51	0.56	160.02	7.58	0.56	159.93	7.54	0.56	159.96	7.55
52	0.56	159.99	7.57	0.56	160.02	7.58	0.56	159.93	7.54
53	0.56	159.99	7.56	0.56	159.99	7.57	0.56	159.96	7.55
54	0.57	158.18	7.52	0.56	159.99	7.56	0.57	157.88	7.50
55	0.57	158.03	7.51	0.57	157.58	7.48	0.57	157.73	7.49
56	0.57	157.88	7.50	0.57	158.18	7.52	0.57	157.58	7.48
57	0.57	157.73	7.49	0.57	158.03	7.51	0.57	158.18	7.52
58	0.57	157.58	7.48	0.57	157.88	7.50	0.57	158.03	7.51
59	0.57	158.18	7.52	0.57	157.73	7.49	0.57	157.88	7.50
60	0.57	158.03	7.51	0.57	157.58	7.48	0.57	157.73	7.49

No	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Gap mm	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$
	0.54 - 0.61	153.60-166.42	7.35-7.75	0.54 - 0.61	153.60-166.42	7.35-7.75	0.54 - 0.61	153.60-166.42	7.35-7.75
61	0.57	158.18	7.52	0.57	158.18	7.52	0.57	158.18	7.52
62	0.57	158.03	7.51	0.57	158.03	7.51	0.57	158.03	7.51
63	0.57	157.88	7.50	0.57	157.88	7.50	0.57	157.88	7.50
64	0.57	157.73	7.49	0.57	157.73	7.49	0.57	157.73	7.49
65	0.57	157.58	7.48	0.57	157.58	7.48	0.57	157.58	7.48
66	0.57	158.18	7.52	0.57	158.18	7.52	0.57	158.18	7.52
67	0.57	158.03	7.51	0.57	158.03	7.51	0.57	158.03	7.51
68	0.57	157.88	7.50	0.57	157.88	7.50	0.57	157.88	7.50
69	0.57	157.73	7.49	0.57	157.73	7.49	0.57	157.73	7.49
70	0.57	157.58	7.48	0.57	157.58	7.48	0.57	157.58	7.48
71	0.57	158.18	7.52	0.57	158.18	7.52	0.57	158.18	7.52
72	0.57	158.03	7.51	0.57	158.03	7.51	0.57	158.03	7.51
73	0.57	157.88	7.50	0.57	157.88	7.50	0.57	157.88	7.50
74	0.57	157.73	7.49	0.57	157.73	7.49	0.57	157.73	7.49
75	0.57	157.58	7.48	0.57	157.58	7.48	0.57	157.58	7.48
76	0.57	158.18	7.52	0.57	158.18	7.52	0.57	158.18	7.52
77	0.57	158.03	7.51	0.57	158.03	7.51	0.57	158.03	7.51
78	0.57	157.88	7.50	0.57	157.88	7.50	0.57	157.88	7.50
79	0.57	157.73	7.49	0.57	157.73	7.49	0.57	157.73	7.49
80	0.57	157.58	7.48	0.57	157.58	7.48	0.57	157.58	7.48
81	0.58	156.39	7.46	0.58	156.39	7.46	0.58	156.39	7.46
82	0.58	156.22	7.45	0.58	156.22	7.45	0.58	156.22	7.45
83	0.58	156.05	7.44	0.58	156.05	7.44	0.58	156.05	7.44
84	0.58	155.88	7.43	0.58	155.88	7.43	0.58	155.88	7.43
85	0.58	155.71	7.42	0.58	155.71	7.42	0.58	155.71	7.42
86	0.58	156.39	7.46	0.58	156.39	7.46	0.58	156.39	7.46
87	0.58	156.22	7.45	0.58	156.22	7.45	0.58	156.22	7.45
88	0.58	156.05	7.44	0.58	156.05	7.44	0.58	156.05	7.44
89	0.58	155.88	7.43	0.58	155.88	7.43	0.58	155.88	7.43
90	0.58	155.71	7.42	0.58	155.71	7.42	0.58	155.71	7.42
91	0.58	156.39	7.46	0.58	155.88	7.43	0.58	156.05	7.44
92	0.58	156.22	7.45	0.58	155.71	7.42	0.58	155.88	7.43
93	0.58	156.05	7.44	0.58	156.39	7.46	0.58	155.71	7.42
94	0.59	154.24	7.40	0.58	156.22	7.45	0.58	154.11	7.39
95	0.59	153.98	7.38	0.59	153.85	7.37	0.59	153.72	7.36
96	0.59	154.24	7.40	0.59	153.98	7.38	0.59	153.72	7.36
97	0.59	154.11	7.39	0.59	153.85	7.37	0.59	154.24	7.40
98	0.59	153.98	7.38	0.59	153.72	7.36	0.59	154.11	7.39
99	0.59	153.85	7.37	0.59	154.24	7.40	0.59	153.98	7.38
100	0.59	153.72	7.36	0.59	154.11	7.39	0.59	153.85	7.37
101	0.59	154.24	7.40	0.59	153.98	7.38	0.59	153.72	7.36
102	0.59	154.11	7.39	0.59	153.85	7.37	0.59	154.24	7.40
103	0.59	154.11	7.39	0.59	153.72	7.36	0.59	153.98	7.38
104	0.59	153.98	7.38	0.59	154.24	7.40	0.59	153.85	7.37
105	0.59	153.85	7.37	0.59	154.11	7.39	0.59	153.72	7.36
106	0.60	152.61	7.34	0.60	152.48	7.33	0.60	152.22	7.31
107	0.60	152.48	7.33	0.60	152.35	7.32	0.60	152.09	7.30
108	0.60	152.35	7.32	0.60	152.22	7.31	0.60	152.61	7.34
109	0.60	152.22	7.31	0.60	152.09	7.30	0.60	152.48	7.33
110	0.60	152.09	7.30	0.60	152.61	7.34	0.60	152.35	7.32
111	0.60	152.61	7.34	0.60	152.48	7.33	0.60	152.22	7.31
112	0.60	152.48	7.33	0.60	152.35	7.32	0.60	152.09	7.30
113	0.60	152.35	7.32	0.60	152.22	7.31	0.60	152.61	7.34
114	0.61	151.08	7.28	0.60	152.09	7.30	0.61	150.90	7.26
115	0.61	150.99	7.27	0.61	150.72	7.24	0.61	150.81	7.25
116	0.61	150.90	7.26	0.61	151.08	7.28	0.61	150.72	7.24
117	0.61	150.81	7.25	0.61	150.99	7.27	0.61	151.08	7.28
118	0.61	150.72	7.24	0.61	150.90	7.26	0.61	150.99	7.27
119	0.61	151.08	7.28	0.61	150.81	7.25	0.61	150.90	7.26
120	0.61	150.99	7.27	0.61	150.72	7.24	0.61	150.81	7.25

## Lampiran 2 Besaran Induksi Berdasarkan Ukuran Penampang

No	Penampang mm <sup>2</sup>	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$		Penampang mm <sup>2</sup>	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$	
		153.60-166.42	7.35-7.75	153.60-166.42	7.35-7.75		153.60-166.42	7.35-7.75		
1	349.86	163.98	7.72	349.86	160.02	7.58	349.86	156.39	7.46	
2	349.86	163.85	7.71	349.86	159.99	7.57	349.86	156.22	7.45	
3	349.86	163.72	7.70	349.86	159.99	7.56	349.86	156.05	7.44	
4	349.86	163.59	7.69	349.86	159.96	7.55	349.86	155.88	7.43	
5	349.86	163.46	7.68	349.86	159.93	7.54	349.86	155.71	7.42	
6	349.86	161.99	7.65	349.86	158.18	7.52	349.86	154.24	7.40	
7	349.86	161.86	7.64	349.86	158.03	7.51	349.86	154.11	7.39	
8	349.86	161.73	7.63	349.86	157.88	7.50	349.86	153.98	7.38	
9	349.86	161.60	7.62	349.86	157.73	7.49	349.86	153.85	7.37	
10	349.86	161.47	7.61	349.86	157.58	7.48	349.86	152.61	7.34	
11	349.86	160.02	7.58	349.86	158.18	7.52	349.86	152.48	7.33	
12	349.86	159.99	7.57	349.86	158.03	7.51	349.86	152.35	7.32	
13	349.86	159.99	7.56	349.86	157.88	7.50	349.86	151.08	7.28	
14	349.86	159.96	7.55	349.86	157.73	7.49	349.86	150.99	7.27	
15	349.86	159.93	7.54	349.86	157.58	7.48	349.86	150.90	7.26	
16	351.44	163.98	7.72	351.44	160.02	7.58	351.44	156.39	7.46	
17	351.44	163.85	7.71	351.44	159.99	7.57	351.44	156.22	7.45	
18	351.44	163.72	7.70	351.44	159.99	7.56	351.44	156.05	7.44	
19	351.44	163.59	7.69	351.44	159.96	7.55	351.44	155.88	7.43	
20	351.44	163.46	7.68	351.44	159.93	7.54	351.44	155.71	7.42	
21	351.44	161.99	7.65	351.44	158.18	7.52	351.44	154.24	7.40	
22	351.44	161.86	7.64	351.44	158.03	7.51	351.44	154.11	7.39	
23	351.44	161.73	7.63	351.44	157.88	7.50	351.44	153.98	7.38	
24	351.44	161.60	7.62	351.44	157.73	7.49	351.44	153.85	7.37	
25	351.44	161.47	7.61	351.44	157.58	7.48	351.44	152.61	7.34	
26	351.44	160.02	7.58	351.44	158.18	7.52	351.44	152.48	7.33	
27	351.44	159.99	7.57	351.44	158.03	7.51	351.44	152.35	7.32	
28	351.44	159.99	7.56	351.44	157.88	7.50	351.44	151.08	7.28	
29	351.44	159.96	7.55	351.44	157.73	7.49	351.44	150.99	7.27	
30	351.44	159.93	7.54	351.44	157.58	7.48	351.44	150.90	7.26	
31	353.02	163.98	7.72	353.02	160.02	7.58	353.02	156.39	7.46	
32	353.02	163.85	7.71	353.02	159.99	7.57	353.02	156.22	7.45	
33	353.02	163.72	7.70	353.02	159.99	7.56	353.02	156.05	7.44	
34	353.02	163.59	7.69	353.02	159.96	7.55	353.02	155.88	7.43	
35	353.02	163.46	7.68	353.02	159.93	7.54	353.02	155.71	7.42	
36	353.02	161.99	7.65	353.02	158.18	7.52	353.02	154.24	7.40	
37	353.02	161.86	7.64	353.02	158.03	7.51	353.02	154.11	7.39	
38	353.02	161.73	7.63	353.02	157.88	7.50	353.02	153.98	7.38	
39	353.02	161.60	7.62	353.02	157.73	7.49	353.02	153.85	7.37	
40	353.02	161.47	7.61	353.02	157.58	7.48	353.02	152.61	7.34	
41	353.02	160.02	7.58	353.02	158.18	7.52	353.02	152.48	7.33	
42	353.02	159.99	7.57	353.02	158.03	7.51	353.02	152.35	7.32	
43	353.02	159.99	7.56	353.02	157.88	7.50	353.02	151.08	7.28	
44	353.02	159.96	7.55	353.02	157.73	7.49	353.02	150.99	7.27	
45	353.02	159.93	7.54	353.02	157.58	7.48	353.02	150.90	7.26	
46	354.59	163.98	7.72	354.59	160.02	7.58	354.59	156.39	7.46	
47	354.59	163.85	7.71	354.59	159.99	7.57	354.59	156.22	7.45	
48	354.59	163.72	7.70	354.59	159.99	7.56	354.59	156.05	7.44	
49	354.59	163.59	7.69	354.59	159.96	7.55	354.59	155.88	7.43	
50	354.59	163.46	7.68	354.59	159.93	7.54	354.59	155.71	7.42	
51	354.59	161.99	7.65	354.59	158.18	7.52	354.59	154.24	7.40	
52	354.59	161.86	7.64	354.59	158.03	7.51	354.59	154.11	7.39	
53	354.59	161.73	7.63	354.59	157.88	7.50	354.59	153.98	7.38	
54	354.59	161.60	7.62	354.59	157.73	7.49	354.59	153.85	7.37	
55	354.59	161.47	7.61	354.59	157.58	7.48	354.59	152.61	7.34	
56	354.59	160.02	7.58	354.59	158.18	7.52	354.59	152.48	7.33	
57	354.59	159.99	7.57	354.59	158.03	7.51	354.59	152.35	7.32	
58	354.59	159.99	7.56	354.59	157.88	7.50	354.59	151.08	7.28	
59	354.59	159.96	7.55	354.59	157.73	7.49	354.59	150.99	7.27	
60	354.59	159.93	7.54	354.59	157.58	7.48	354.59	150.90	7.26	

No	Penampang mm <sup>2</sup>	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Penampang mm <sup>2</sup>	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$	Penampang mm <sup>2</sup>	Induksi Primer $\mu\text{F}$	Induksi Sekunder $\mu\text{F}$
		153.60-166.42	7.35-7.75		153.60-166.42	7.35-7.75		153.60-166.42	7.35-7.75
61	356.17	163.98	7.72	356.17	160.02	7.58	356.17	156.39	7.46
62	356.17	163.85	7.71	356.17	159.99	7.57	356.17	156.22	7.45
63	356.17	163.72	7.70	356.17	159.99	7.56	356.17	156.05	7.44
64	356.17	163.59	7.69	356.17	159.96	7.55	356.17	155.88	7.43
65	356.17	163.46	7.68	356.17	159.93	7.54	356.17	155.71	7.42
66	356.17	161.99	7.65	356.17	158.18	7.52	356.17	154.24	7.40
67	356.17	161.86	7.64	356.17	158.03	7.51	356.17	154.11	7.39
68	356.17	161.73	7.63	356.17	157.88	7.50	356.17	153.98	7.38
69	356.17	161.60	7.62	356.17	157.73	7.49	356.17	153.85	7.37
70	356.17	161.47	7.61	356.17	157.58	7.48	356.17	152.61	7.34
71	356.17	160.02	7.58	356.17	158.18	7.52	356.17	152.48	7.33
72	356.17	159.99	7.57	356.17	158.03	7.51	356.17	152.35	7.32
73	356.17	159.99	7.56	356.17	157.88	7.50	356.17	151.08	7.28
74	356.17	159.96	7.55	356.17	157.73	7.49	356.17	150.99	7.27
75	356.17	159.93	7.54	356.17	157.58	7.48	356.17	150.90	7.26
76	357.74	163.98	7.72	357.74	160.02	7.58	357.74	156.39	7.46
77	357.74	163.85	7.71	357.74	159.99	7.57	357.74	156.22	7.45
78	357.74	163.72	7.70	357.74	159.99	7.56	357.74	156.05	7.44
79	357.74	163.59	7.69	357.74	159.96	7.55	357.74	155.88	7.43
80	357.74	163.46	7.68	357.74	159.93	7.54	357.74	155.71	7.42
81	357.74	161.99	7.65	357.74	158.18	7.52	357.74	154.24	7.40
82	357.74	161.86	7.64	357.74	158.03	7.51	357.74	154.11	7.39
83	357.74	161.73	7.63	357.74	157.88	7.50	357.74	153.98	7.38
84	357.74	161.60	7.62	357.74	157.73	7.49	357.74	153.85	7.37
85	357.74	161.47	7.61	357.74	157.58	7.48	357.74	152.61	7.34
86	357.74	160.02	7.58	357.74	158.18	7.52	357.74	152.48	7.33
87	357.74	159.99	7.57	357.74	158.03	7.51	357.74	152.35	7.32
88	357.74	159.99	7.56	357.74	157.88	7.50	357.74	151.08	7.28
89	357.74	159.96	7.55	357.74	157.73	7.49	357.74	150.99	7.27
90	357.74	159.93	7.54	357.74	157.58	7.48	357.74	150.90	7.26
91	359.31	163.98	7.72	359.31	160.02	7.58	359.31	156.39	7.46
92	359.31	163.85	7.71	359.31	159.99	7.57	359.31	156.22	7.45
93	359.31	163.72	7.70	359.31	159.99	7.56	359.31	156.05	7.44
94	359.31	163.59	7.69	359.31	159.96	7.55	359.31	155.88	7.43
95	359.31	163.46	7.68	359.31	159.93	7.54	359.31	155.71	7.42
96	359.31	161.99	7.65	359.31	158.18	7.52	359.31	154.24	7.40
97	359.31	161.86	7.64	359.31	158.03	7.51	359.31	154.11	7.39
98	359.31	161.73	7.63	359.31	157.88	7.50	359.31	153.98	7.38
99	359.31	161.60	7.62	359.31	157.73	7.49	359.31	153.85	7.37
100	359.31	161.47	7.61	359.31	157.58	7.48	359.31	152.61	7.34
101	359.31	160.02	7.58	359.31	158.18	7.52	359.31	152.48	7.33
102	359.31	159.99	7.57	359.31	158.03	7.51	359.31	152.35	7.32
103	359.31	159.99	7.56	359.31	157.88	7.50	359.31	151.08	7.28
104	359.31	159.96	7.55	359.31	157.73	7.49	359.31	150.99	7.27
105	359.31	159.93	7.54	359.31	157.58	7.48	359.31	150.90	7.26
106	360.89	163.98	7.72	360.89	160.02	7.58	360.89	156.39	7.46
107	360.89	163.85	7.71	360.89	159.99	7.57	360.89	156.22	7.45
108	360.89	163.72	7.70	360.89	159.99	7.56	360.89	156.05	7.44
109	360.89	163.59	7.69	360.89	159.96	7.55	360.89	155.88	7.43
110	360.89	163.46	7.68	360.89	159.93	7.54	360.89	155.71	7.42
111	360.89	161.99	7.65	360.89	158.18	7.52	360.89	154.24	7.40
112	360.89	161.86	7.64	360.89	158.03	7.51	360.89	154.11	7.39
113	360.89	161.73	7.63	360.89	157.88	7.50	360.89	153.98	7.38
114	360.89	161.60	7.62	360.89	157.73	7.49	360.89	153.85	7.37
115	360.89	161.47	7.61	360.89	157.58	7.48	360.89	152.61	7.34
116	360.89	160.02	7.58	360.89	158.18	7.52	360.89	152.48	7.33
117	360.89	159.99	7.57	360.89	158.03	7.51	360.89	152.35	7.32
118	360.89	159.99	7.56	360.89	157.88	7.50	360.89	151.08	7.28
119	360.89	159.96	7.55	360.89	157.73	7.49	360.89	150.99	7.27
120	360.89	159.93	7.54	360.89	157.58	7.48	360.89	150.90	7.26

## Lampiran 3 Besaran Induksi Berdasarkan Panjang Tanjung

No	Panjang Tanjung mm	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$		Panjang Tanjung mm	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$	
		153.60-166.42	7.35-7.75	153.60-166.42	7.35-7.75		153.60-166.42	7.35-7.75		
1	59.91	163.98	7.72	59.91	160.02	7.58	59.91	160.02	7.58	
2	59.91	163.85	7.71	59.91	159.99	7.57	59.91	159.99	7.57	
3	59.91	163.72	7.70	59.91	159.99	7.56	59.91	159.99	7.56	
4	59.91	163.59	7.69	59.91	159.96	7.55	59.91	159.96	7.55	
5	59.91	163.46	7.68	59.91	159.93	7.54	59.91	159.93	7.54	
6	59.91	161.99	7.65	59.91	160.02	7.58	59.91	158.18	7.52	
7	59.91	161.86	7.64	59.91	159.99	7.57	59.91	158.03	7.51	
8	59.91	161.73	7.63	59.91	159.99	7.56	59.91	157.88	7.50	
9	59.91	161.60	7.62	59.91	159.96	7.55	59.91	157.73	7.49	
10	59.91	161.47	7.61	59.91	159.93	7.54	59.91	157.58	7.48	
11	59.91	161.99	7.65	59.91	160.02	7.58	59.91	158.18	7.52	
12	59.91	161.86	7.64	59.91	159.99	7.57	59.91	158.03	7.51	
13	59.91	161.73	7.63	59.91	159.99	7.56	59.91	157.88	7.50	
14	59.91	161.60	7.62	59.91	159.96	7.55	59.91	157.73	7.49	
15	59.91	161.47	7.61	59.91	159.93	7.54	59.91	157.58	7.48	
16	60.01	163.98	7.72	60.01	160.02	7.58	60.01	160.02	7.58	
17	60.01	163.85	7.71	60.01	159.99	7.57	60.01	159.99	7.57	
18	60.01	163.72	7.70	60.01	159.99	7.56	60.01	159.99	7.56	
19	60.01	163.59	7.69	60.01	159.96	7.55	60.01	159.96	7.55	
20	60.01	163.46	7.68	60.01	159.93	7.54	60.01	159.93	7.54	
21	60.01	161.99	7.65	60.01	160.02	7.58	60.01	158.18	7.52	
22	60.01	161.86	7.64	60.01	159.99	7.57	60.01	158.03	7.51	
23	60.01	161.73	7.63	60.01	159.99	7.56	60.01	157.88	7.50	
24	60.01	161.60	7.62	60.01	159.96	7.55	60.01	157.73	7.49	
25	60.01	161.47	7.61	60.01	159.93	7.54	60.01	157.58	7.48	
26	60.01	161.99	7.65	60.01	160.02	7.58	60.01	158.18	7.52	
27	60.01	161.86	7.64	60.01	159.99	7.57	60.01	158.03	7.51	
28	60.01	161.73	7.63	60.01	159.99	7.56	60.01	157.88	7.50	
29	60.01	161.60	7.62	60.01	159.96	7.55	60.01	157.73	7.49	
30	60.01	161.47	7.61	60.01	159.93	7.54	60.01	157.58	7.48	
31	60.11	163.98	7.72	60.11	160.02	7.58	60.11	160.02	7.58	
32	60.11	163.85	7.71	60.11	159.99	7.57	60.11	159.99	7.57	
33	60.11	163.72	7.70	60.11	159.99	7.56	60.11	159.99	7.56	
34	60.11	163.59	7.69	60.11	159.96	7.55	60.11	159.96	7.55	
35	60.11	163.46	7.68	60.11	159.93	7.54	60.11	159.93	7.54	
36	60.11	161.99	7.65	60.11	160.02	7.58	60.11	158.18	7.52	
37	60.11	161.86	7.64	60.11	159.99	7.57	60.11	158.03	7.51	
38	60.11	161.73	7.63	60.11	159.99	7.56	60.11	157.88	7.50	
39	60.11	161.60	7.62	60.11	159.96	7.55	60.11	157.73	7.49	
40	60.11	161.47	7.61	60.11	159.93	7.54	60.11	157.58	7.48	
41	60.11	161.99	7.65	60.11	160.02	7.58	60.11	158.18	7.52	
42	60.11	161.86	7.64	60.11	159.99	7.57	60.11	158.03	7.51	
43	60.11	161.73	7.63	60.11	159.99	7.56	60.11	157.88	7.50	
44	60.11	161.60	7.62	60.11	159.96	7.55	60.11	157.73	7.49	
45	60.11	161.47	7.61	60.11	159.93	7.54	60.11	157.58	7.48	
46	60.21	163.98	7.72	60.21	160.02	7.58	60.21	160.02	7.58	
47	60.21	163.85	7.71	60.21	159.99	7.57	60.21	159.99	7.57	
48	60.21	163.72	7.70	60.21	159.99	7.56	60.21	159.99	7.56	
49	60.21	163.59	7.69	60.21	159.96	7.55	60.21	159.96	7.55	
50	60.21	163.46	7.68	60.21	159.93	7.54	60.21	159.93	7.54	
51	60.21	161.99	7.65	60.21	160.02	7.58	60.21	158.18	7.52	
52	60.21	161.86	7.64	60.21	159.99	7.57	60.21	158.03	7.51	
53	60.21	161.73	7.63	60.21	159.99	7.56	60.21	157.88	7.50	
54	60.21	161.60	7.62	60.21	159.96	7.55	60.21	157.73	7.49	
55	60.21	161.47	7.61	60.21	159.93	7.54	60.21	157.58	7.48	
56	60.21	161.99	7.65	60.21	160.02	7.58	60.21	158.18	7.52	
57	60.21	161.86	7.64	60.21	159.99	7.57	60.21	158.03	7.51	
58	60.21	161.73	7.63	60.21	159.99	7.56	60.21	157.88	7.50	
59	60.21	161.60	7.62	60.21	159.96	7.55	60.21	157.73	7.49	
60	60.21	161.47	7.61	60.21	159.93	7.54	60.21	157.58	7.48	

No	Panjang Tanjung mm	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$		Panjang Tanjung mm	Induksi Primer $\mu\text{F}$		Induksi Sekunder $\mu\text{F}$	
		153.60-166.42	7.35-7.75	153.60-166.42	7.35-7.75		153.60-166.42	7.35-7.75		
61	60.31	163.98	7.72	60.31	160.02	7.58	60.31	160.02	7.58	
62	60.31	163.85	7.71	60.31	159.99	7.57	60.31	159.99	7.57	
63	60.31	163.72	7.70	60.31	159.99	7.56	60.31	159.99	7.56	
64	60.31	163.59	7.69	60.31	159.96	7.55	60.31	159.96	7.55	
65	60.31	163.46	7.68	60.31	159.93	7.54	60.31	159.93	7.54	
66	60.31	161.99	7.65	60.31	160.02	7.58	60.31	158.18	7.52	
67	60.31	161.86	7.64	60.31	159.99	7.57	60.31	158.03	7.51	
68	60.31	161.73	7.63	60.31	159.99	7.56	60.31	157.88	7.50	
69	60.31	161.60	7.62	60.31	159.96	7.55	60.31	157.73	7.49	
70	60.31	161.47	7.61	60.31	159.93	7.54	60.31	157.58	7.48	
71	60.31	161.99	7.65	60.31	160.02	7.58	60.31	158.18	7.52	
72	60.31	161.86	7.64	60.31	159.99	7.57	60.31	158.03	7.51	
73	60.31	161.73	7.63	60.31	159.99	7.56	60.31	157.88	7.50	
74	60.31	161.60	7.62	60.31	159.96	7.55	60.31	157.73	7.49	
75	60.31	161.47	7.61	60.31	159.93	7.54	60.31	157.58	7.48	
76	60.41	163.98	7.72	60.41	160.02	7.58	60.41	160.02	7.58	
77	60.41	163.85	7.71	60.41	159.99	7.57	60.41	159.99	7.57	
78	60.41	163.72	7.70	60.41	159.99	7.56	60.41	159.99	7.56	
79	60.41	163.59	7.69	60.41	159.96	7.55	60.41	159.96	7.55	
80	60.41	163.46	7.68	60.41	159.93	7.54	60.41	159.93	7.54	
81	60.41	161.99	7.65	60.41	160.02	7.58	60.41	158.18	7.52	
82	60.41	161.86	7.64	60.41	159.99	7.57	60.41	158.03	7.51	
83	60.41	161.73	7.63	60.41	159.99	7.56	60.41	157.88	7.50	
84	60.41	161.60	7.62	60.41	159.96	7.55	60.41	157.73	7.49	
85	60.41	161.47	7.61	60.41	159.93	7.54	60.41	157.58	7.48	
86	60.41	161.99	7.65	60.41	160.02	7.58	60.41	158.18	7.52	
87	60.41	161.86	7.64	60.41	159.99	7.57	60.41	158.03	7.51	
88	60.41	161.73	7.63	60.41	159.99	7.56	60.41	157.88	7.50	
89	60.41	161.60	7.62	60.41	159.96	7.55	60.41	157.73	7.49	
90	60.41	161.47	7.61	60.41	159.93	7.54	60.41	157.58	7.48	
91	60.51	163.98	7.72	60.51	160.02	7.58	60.51	160.02	7.58	
92	60.51	163.85	7.71	60.51	159.99	7.57	60.51	159.99	7.57	
93	60.51	163.72	7.70	60.51	159.99	7.56	60.51	159.99	7.56	
94	60.51	163.59	7.69	60.51	159.96	7.55	60.51	159.96	7.55	
95	60.51	163.46	7.68	60.51	159.93	7.54	60.51	159.93	7.54	
96	60.51	161.99	7.65	60.51	160.02	7.58	60.51	158.18	7.52	
97	60.51	161.86	7.64	60.51	159.99	7.57	60.51	158.03	7.51	
98	60.51	161.73	7.63	60.51	159.99	7.56	60.51	157.88	7.50	
99	60.51	161.60	7.62	60.51	159.96	7.55	60.51	157.73	7.49	
100	60.51	161.47	7.61	60.51	159.93	7.54	60.51	157.58	7.48	
101	60.51	161.99	7.65	60.51	160.02	7.58	60.51	158.18	7.52	
102	60.51	161.86	7.64	60.51	159.99	7.57	60.51	158.03	7.51	
103	60.51	161.73	7.63	60.51	159.99	7.56	60.51	157.88	7.50	
104	60.51	161.60	7.62	60.51	159.96	7.55	60.51	157.73	7.49	
105	60.51	161.47	7.61	60.51	159.93	7.54	60.51	157.58	7.48	
106	60.61	163.98	7.72	60.61	160.02	7.58	60.61	160.02	7.58	
107	60.61	163.85	7.71	60.61	159.99	7.57	60.61	159.99	7.57	
108	60.61	163.72	7.70	60.61	159.99	7.56	60.61	159.99	7.56	
109	60.61	163.59	7.69	60.61	159.96	7.55	60.61	159.96	7.55	
110	60.61	163.46	7.68	60.61	159.93	7.54	60.61	159.93	7.54	
111	60.61	161.99	7.65	60.61	160.02	7.58	60.61	158.18	7.52	
112	60.61	161.86	7.64	60.61	159.99	7.57	60.61	158.03	7.51	
113	60.61	161.73	7.63	60.61	159.99	7.56	60.61	157.88	7.50	
114	60.61	161.60	7.62	60.61	159.96	7.55	60.61	157.73	7.49	
115	60.61	161.47	7.61	60.61	159.93	7.54	60.61	157.58	7.48	
116	60.61	161.99	7.65	60.61	160.02	7.58	60.61	158.18	7.52	
117	60.61	161.86	7.64	60.61	159.99	7.57	60.61	158.03	7.51	
118	60.61	161.73	7.63	60.61	159.99	7.56	60.61	157.88	7.50	
119	60.61	161.60	7.62	60.61	159.96	7.55	60.61	157.73	7.49	
120	60.61	161.47	7.61	60.61	159.93	7.54	60.61	157.58	7.48	

## Lampiran 4 Analisa Varian Induksi Primer

Analysis of Variance for Ip, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
G	2	334.227	334.227	167.114	4976.08	0.000
D	2	0.000	0.000	0.000	0.00	1.000
P	2	0.000	0.000	0.000	0.00	1.000
G*D	4	0.000	0.000	0.000	0.00	1.000
G*P	4	0.000	0.000	0.000	0.00	1.000
D*P	4	0.000	0.000	0.000	0.00	1.000
G*D*P	8	0.000	0.000	0.000	0.00	1.000
Error	108	3.627	3.627	0.034		
Total	134	337.854				

S = 0.183258 R-Sq = 98.93% R-Sq(adj) = 98.67%

Term	Coef	SE Coef	T	P
Constant	159.857	0.016	10135.28	0.000
G				
-1	1.87333	0.02231	83.99	0.000
0	0.10333	0.02231	4.63	0.000
D				
-1	0.00000	0.02231	0.00	1.000
0	-0.00000	0.02231	-0.00	1.000
P				
-1	0.00000	0.02231	0.00	1.000
0	-0.00000	0.02231	-0.00	1.000
G*D				
-1 -1	0.00000	0.03154	0.00	1.000
-1 0	0.00000	0.03154	0.00	1.000
0 -1	-0.00000	0.03154	-0.00	1.000
0 0	0.00000	0.03154	0.00	1.000
G*P				
-1 -1	0.00000	0.03154	0.00	1.000
-1 0	-0.00000	0.03154	-0.00	1.000
0 -1	-0.00000	0.03154	-0.00	1.000
0 0	-0.00000	0.03154	-0.00	1.000
D*P				
-1 -1	0.00000	0.03154	0.00	1.000
-1 0	0.00000	0.03154	0.00	1.000
0 -1	0.00000	0.03154	0.00	1.000
0 0	-0.00000	0.03154	-0.00	1.000
G*D*P				
-1 -1 -1	-0.00000	0.04461	-0.00	1.000
-1 -1 0	-0.00000	0.04461	-0.00	1.000
-1 0 -1	-0.00000	0.04461	-0.00	1.000
-1 0 0	0.00000	0.04461	0.00	1.000
0 -1 -1	-0.00000	0.04461	-0.00	1.000
0 -1 0	0.00000	0.04461	0.00	1.000
0 0 -1	-0.00000	0.04461	-0.00	1.000
0 0 0	-0.00000	0.04461	-0.00	1.000

Least Squares Means for Ip

	Mean	SE Mean
G		
-1	161.7	0.02732
0	160.0	0.02732
1	157.9	0.02732
D		
-1	159.9	0.02732
0	159.9	0.02732
1	159.9	0.02732

P				
-1		159.9	0.02732	
0		159.9	0.02732	
1		159.9	0.02732	
G*D				
-1	-1	161.7	0.04732	
-1	0	161.7	0.04732	
-1	1	161.7	0.04732	
0	-1	160.0	0.04732	
0	0	160.0	0.04732	
0	1	160.0	0.04732	
1	-1	157.9	0.04732	
1	0	157.9	0.04732	
1	1	157.9	0.04732	
G*P				
-1	-1	161.7	0.04732	
-1	0	161.7	0.04732	
-1	1	161.7	0.04732	
0	-1	160.0	0.04732	
0	0	160.0	0.04732	
0	1	160.0	0.04732	
1	-1	157.9	0.04732	
1	0	157.9	0.04732	
1	1	157.9	0.04732	
D*P				
-1	-1	159.9	0.04732	
-1	0	159.9	0.04732	
-1	1	159.9	0.04732	
0	-1	159.9	0.04732	
0	0	159.9	0.04732	
0	1	159.9	0.04732	
1	-1	159.9	0.04732	
1	0	159.9	0.04732	
1	1	159.9	0.04732	
G*D*P				
-1	-1	-1	161.7	0.08196
-1	-1	0	161.7	0.08196
-1	-1	1	161.7	0.08196
-1	0	-1	161.7	0.08196
-1	0	0	161.7	0.08196
-1	0	1	161.7	0.08196
-1	1	-1	161.7	0.08196
-1	1	0	161.7	0.08196
-1	1	1	161.7	0.08196
0	-1	-1	160.0	0.08196
0	-1	0	160.0	0.08196
0	-1	1	160.0	0.08196
0	0	-1	160.0	0.08196
0	0	0	160.0	0.08196
0	0	1	160.0	0.08196
0	1	-1	160.0	0.08196
0	1	0	160.0	0.08196
0	1	1	160.0	0.08196
1	-1	-1	157.9	0.08196
1	-1	0	157.9	0.08196
1	-1	1	157.9	0.08196
1	0	-1	157.9	0.08196
1	0	0	157.9	0.08196
1	0	1	157.9	0.08196
1	1	-1	157.9	0.08196
1	1	0	157.9	0.08196
1	1	1	157.9	0.08196



## Lampiran 5 Analisa Varian Induksi Sekunder

Analysis of Variance for Is, using Adjusted SS for Tests

Source	DF	Seq SS	Adj SS	Adj MS	F	P
G	2	0.441000	0.441000	0.220500	882.00	0.000
D	2	0.000000	0.000000	0.000000	0.00	1.000
P	2	0.000000	0.000000	0.000000	0.00	1.000
G*D	4	0.000000	0.000000	0.000000	0.00	1.000
G*P	4	0.000000	0.000000	0.000000	0.00	1.000
D*P	4	0.000000	0.000000	0.000000	0.00	1.000
G*D*P	8	0.000000	0.000000	0.000000	0.00	1.000
Error	108	0.027000	0.027000	0.000250		
Total	134	0.468000				

S = 0.0158114 R-Sq = 94.23% R-Sq(adj) = 92.84%

Term	Coef	SE Coef	T	P
Constant	7.55000	0.00136	5548.09	0.000
G				
-1	0.070000	0.001925	36.37	0.000
0	0.000000	0.001925	0.00	1.000
D				
-1	0.000000	0.001925	0.00	1.000
0	-0.000000	0.001925	-0.00	1.000
P				
-1	0.000000	0.001925	0.00	1.000
0	-0.000000	0.001925	-0.00	1.000
G*D				
-1 -1	0.000000	0.002722	0.00	1.000
-1 0	0.000000	0.002722	0.00	1.000
0 -1	0.000000	0.002722	0.00	1.000
0 0	0.000000	0.002722	0.00	1.000
G*P				
-1 -1	0.000000	0.002722	0.00	1.000
-1 0	-0.000000	0.002722	-0.00	1.000
0 -1	0.000000	0.002722	0.00	1.000
0 0	0.000000	0.002722	0.00	1.000
D*P				
-1 -1	0.000000	0.002722	0.00	1.000
-1 0	0.000000	0.002722	0.00	1.000
0 -1	-0.000000	0.002722	-0.00	1.000
0 0	0.000000	0.002722	0.00	1.000
G*D*P				
-1 -1 -1	0.000000	0.003849	0.00	1.000
-1 -1 0	-0.000000	0.003849	-0.00	1.000
-1 0 -1	-0.000000	0.003849	-0.00	1.000
-1 0 0	0.000000	0.003849	0.00	1.000
0 -1 -1	-0.000000	0.003849	-0.00	1.000
0 -1 0	0.000000	0.003849	0.00	1.000
0 0 -1	0.000000	0.003849	0.00	1.000
0 0 0	-0.000000	0.003849	-0.00	1.000

Least Squares Means for Is

	Mean	SE Mean
G		
-1	7.620	0.002357
0	7.550	0.002357
1	7.480	0.002357
D		
-1	7.550	0.002357
0	7.550	0.002357
1	7.550	0.002357

P			
-1	7.550	0.002357	
0	7.550	0.002357	
1	7.550	0.002357	

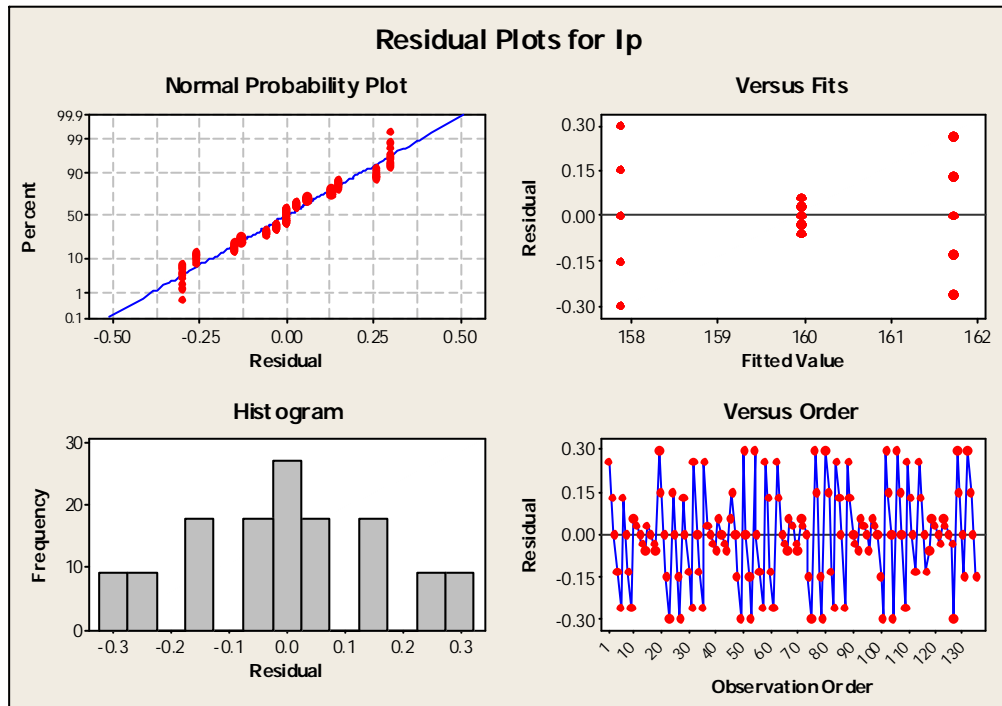
G*D			
-1 -1	7.620	0.004082	
-1 0	7.620	0.004082	
-1 1	7.620	0.004082	
0 -1	7.550	0.004082	
0 0	7.550	0.004082	
0 1	7.550	0.004082	
1 -1	7.480	0.004082	
1 0	7.480	0.004082	
1 1	7.480	0.004082	

G*P			
-1 -1	7.620	0.004082	
-1 0	7.620	0.004082	
-1 1	7.620	0.004082	
0 -1	7.550	0.004082	
0 0	7.550	0.004082	
0 1	7.550	0.004082	
1 -1	7.480	0.004082	
1 0	7.480	0.004082	
1 1	7.480	0.004082	

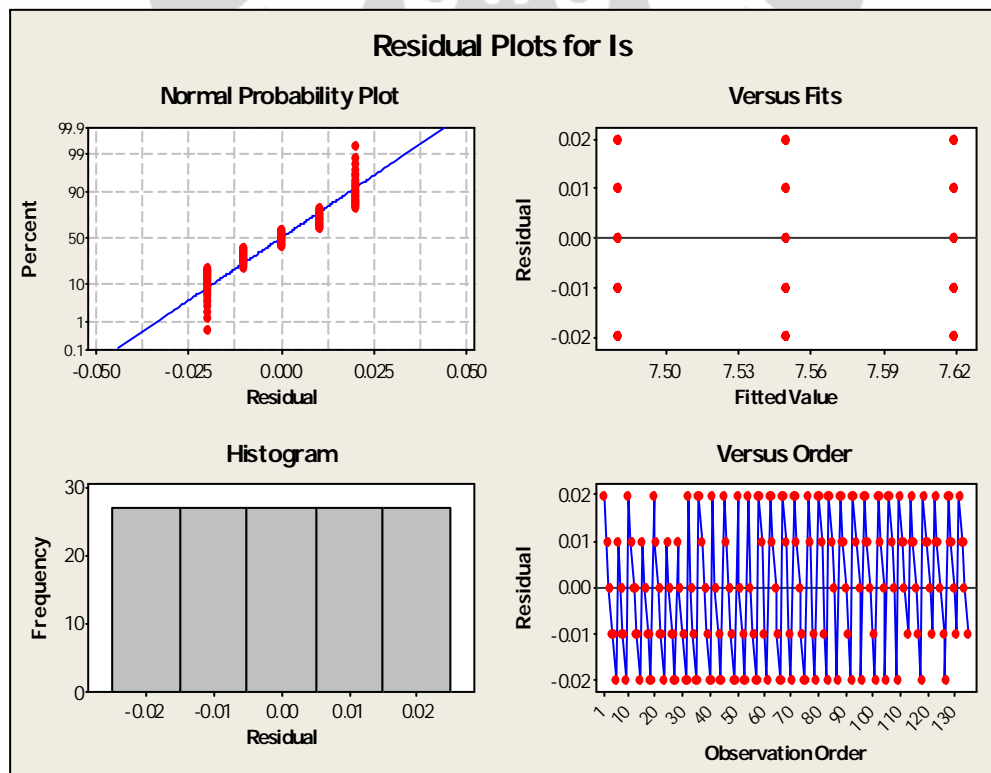
D*P			
-1 -1	7.550	0.004082	
-1 0	7.550	0.004082	
-1 1	7.550	0.004082	
0 -1	7.550	0.004082	
0 0	7.550	0.004082	
0 1	7.550	0.004082	
1 -1	7.550	0.004082	
1 0	7.550	0.004082	
1 1	7.550	0.004082	

G*D*P			
-1 -1 -1	7.620	0.007071	
-1 -1 0	7.620	0.007071	
-1 -1 1	7.620	0.007071	
-1 0 -1	7.620	0.007071	
-1 0 0	7.620	0.007071	
-1 0 1	7.620	0.007071	
-1 1 -1	7.620	0.007071	
-1 1 0	7.620	0.007071	
-1 1 1	7.620	0.007071	
0 -1 -1	7.550	0.007071	
0 -1 0	7.550	0.007071	
0 -1 1	7.550	0.007071	
0 0 -1	7.550	0.007071	
0 0 0	7.550	0.007071	
0 0 1	7.550	0.007071	
0 1 -1	7.550	0.007071	
0 1 0	7.550	0.007071	
0 1 1	7.550	0.007071	
1 -1 -1	7.480	0.007071	
1 -1 0	7.480	0.007071	
1 -1 1	7.480	0.007071	
1 0 -1	7.480	0.007071	
1 0 0	7.480	0.007071	
1 0 1	7.480	0.007071	
1 1 -1	7.480	0.007071	
1 1 0	7.480	0.007071	
1 1 1	7.480	0.007071	

Lampiran 6 Normal Probabilitas

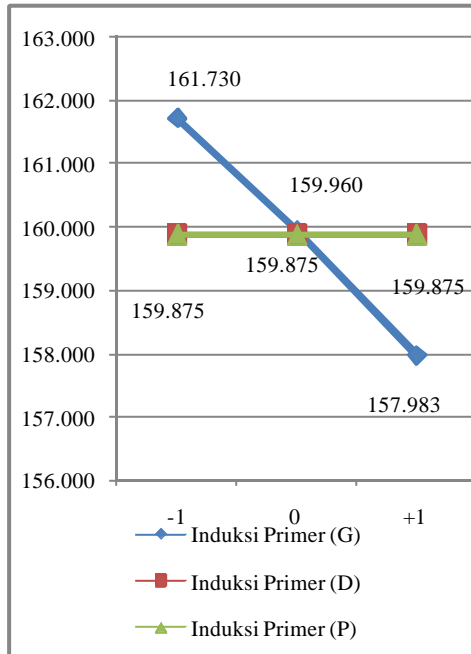


Grafik L-1 : Plot Residu untuk Induksi Primer

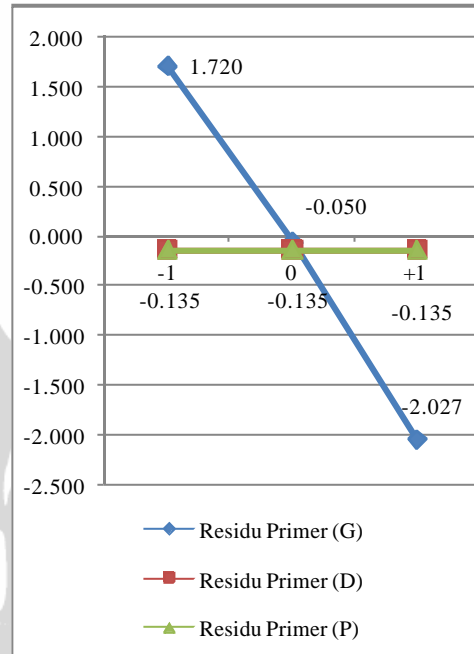


Grafik L-2 : Plot Residu untuk Induksi Sekunder

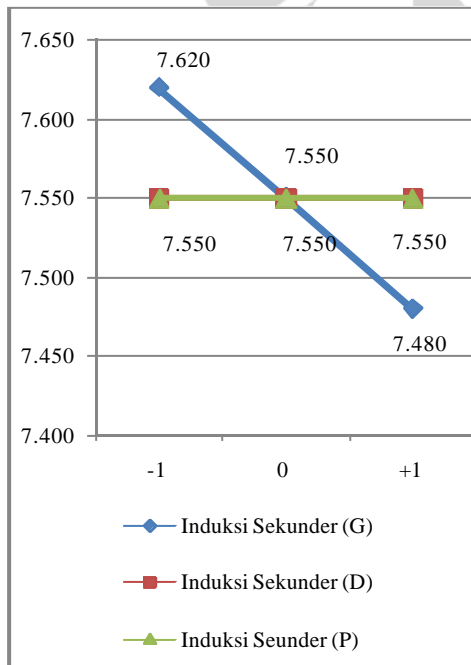
Lampiran 7 Besaran Induksi Berdasarkan Faktor Dimensi



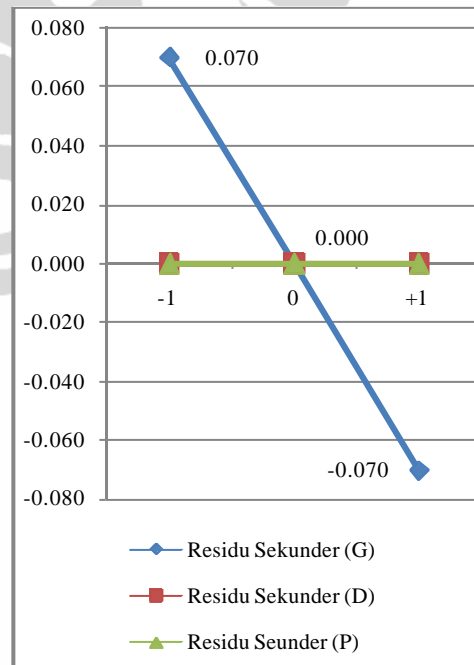
Grafik L-3 : Nilai Induksi Sekunder berdasarkan Faktor Dimensi Inti



Grafik L-4 : Nilai Residu Induksi Primer



Grafik L-5 : Nilai Induksi Sekunder berdasarkan Faktor Dimensi Inti



Grafik L-6 : Nilai Residu Induksi Sekunder