

# SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## VULB 9160

### Korrekturdaten für kurze Meßentfernung (Spitze)

### Correction for Short Measuring Distance (Tip)

Frequency	Gain(Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant.Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
25.0	-13.28	11.46	-13.93	12.11	-15.29	13.47	-18.29	16.47
27.0	-12.38	11.23	-13.03	11.88	-14.39	13.23	-17.39	16.24
30.0	-11.36	11.12	-12.01	11.77	-13.37	13.13	-16.37	16.13
35.0	-9.96	11.06	-10.61	11.71	-11.97	13.07	-14.97	16.07
40.0	-9.70	11.96	-10.35	12.61	-11.71	13.97	-14.71	16.97
45.0	-8.32	11.61	-8.97	12.26	-10.33	13.61	-13.33	16.61
50.0	-7.41	11.61	-8.06	12.26	-9.42	13.62	-12.42	16.62
60.0	-5.45	11.23	-6.10	11.89	-7.46	13.24	-10.46	16.24
70.0	-2.15	9.28	-2.80	9.92	-4.16	11.28	-7.16	14.28
80.0	0.65	7.63	-0.00	8.28	-1.36	9.64	-4.36	12.64
90.0	0.56	8.74	-0.09	9.40	-1.45	10.75	-4.45	13.75
100.0	0.82	9.40	0.17	10.05	-1.19	11.41	-4.19	14.41
110.0	0.63	10.41	-0.02	11.07	-1.38	12.43	-4.38	15.43
120.0	0.36	11.44	-0.29	12.10	-1.65	13.45	-4.65	16.45
130.0	0.81	11.69	0.16	12.34	-1.20	13.70	-4.20	16.70
140.0	0.93	12.21	0.28	12.86	-1.08	14.22	-4.08	17.22
150.0	0.91	12.84	0.26	13.48	-1.10	14.84	-4.10	17.84
160.0	1.26	13.04	0.61	13.69	-0.75	15.05	-3.75	18.05
170.0	2.62	12.21	1.97	12.86	0.61	14.22	-2.39	17.22
180.0	4.58	10.74	3.93	11.40	2.57	12.75	-0.43	15.75
190.0	6.04	9.75	5.42	10.37	4.14	11.66	1.25	14.54
200.0	6.93	9.31	6.35	9.89	5.12	11.12	2.35	13.89
210.0	7.40	9.26	6.84	9.82	5.67	10.99	3.00	13.67
220.0	7.48	9.59	6.95	10.12	5.84	11.23	3.26	13.81
230.0	7.27	10.19	6.77	10.69	5.70	11.76	3.21	14.24
240.0	7.12	10.70	6.64	11.19	5.61	12.22	3.20	14.62
250.0	7.18	11.00	6.72	11.46	5.73	12.45	3.40	14.78
260.0	7.23	11.29	6.79	11.73	5.84	12.68	3.59	14.93
270.0	7.18	11.67	6.76	12.09	5.84	13.01	3.66	15.19
280.0	7.12	12.04	6.71	12.45	5.83	13.33	3.71	15.45
290.0	7.12	12.35	6.73	12.74	5.88	13.59	3.83	15.64
300.0	7.15	12.61	6.77	12.99	5.95	13.81	3.95	15.81
325.0	7.22	13.23	6.88	13.58	6.12	14.34	4.27	16.19
350.0	7.35	13.75	7.03	14.07	6.34	14.76	4.62	16.49
375.0	7.35	14.35	7.06	14.64	6.42	15.28	4.81	16.89
400.0	7.38	14.88	7.11	15.15	6.51	15.75	5.00	17.26
425.0	7.27	15.52	7.02	15.77	6.46	16.33	5.02	17.76
450.0	7.13	16.15	6.89	16.39	6.37	16.92	5.02	18.26
475.0	7.19	16.57	6.97	16.78	6.48	17.27	5.22	18.54
500.0	7.26	16.94	7.05	17.15	6.59	17.61	5.39	18.81
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Spitze der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Tip of Log. - Per. Structure</b>					

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## VULB 9160

### Korrekturdaten für kurze Meßentfernung (Spitze)

### Correction for Short Measuring Distance (Tip)

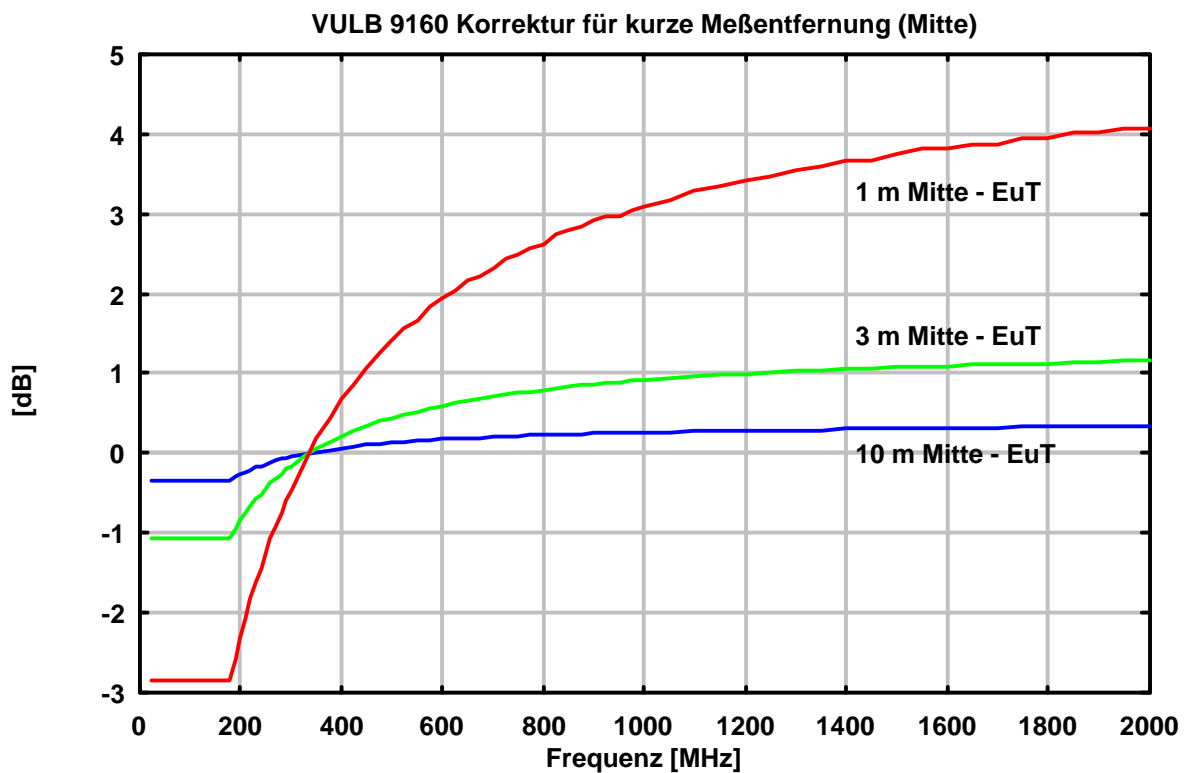
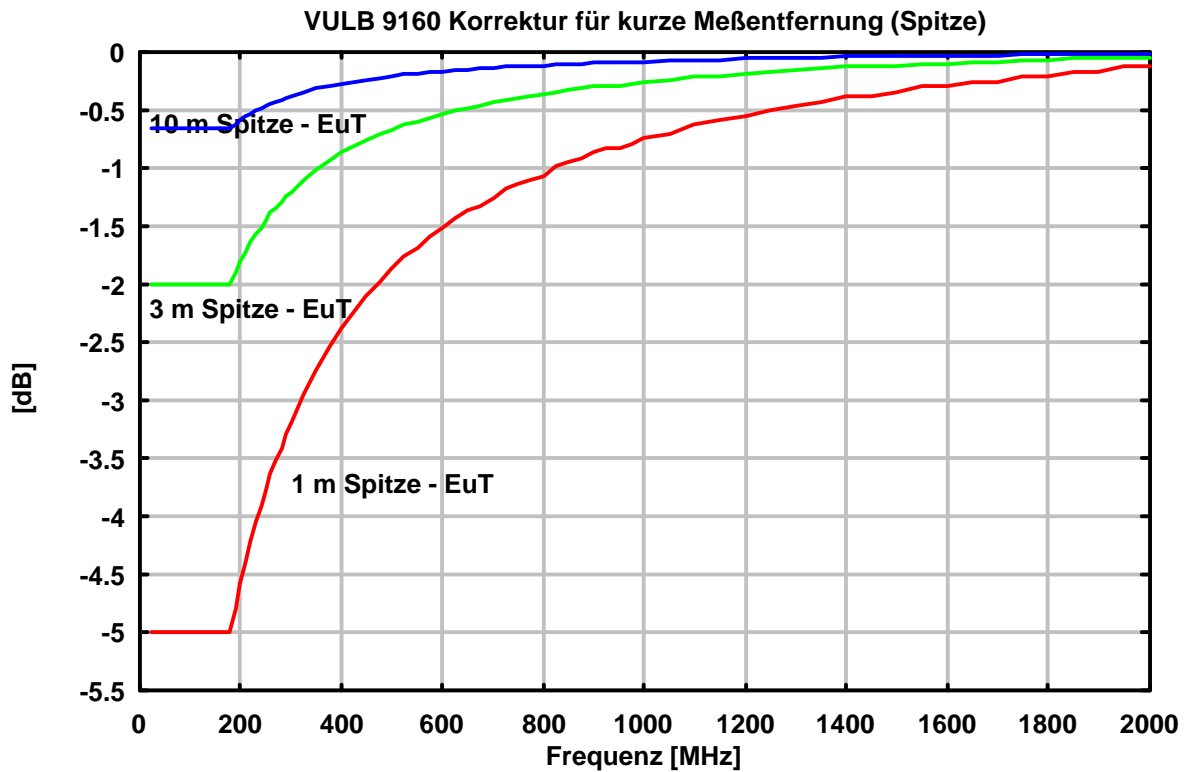
Frequency	Gain(Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant.Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
525.0	7.25	17.38	7.06	17.57	6.62	18.00	5.49	19.14
550.0	7.11	17.92	6.93	18.10	6.51	18.52	5.42	19.61
575.0	6.94	18.48	6.77	18.65	6.38	19.03	5.36	20.06
600.0	6.81	18.98	6.65	19.14	6.28	19.51	5.30	20.48
625.0	6.74	19.40	6.59	19.55	6.23	19.90	5.30	20.84
650.0	6.73	19.75	6.58	19.89	6.25	20.23	5.37	21.11
675.0	6.75	20.05	6.61	20.20	6.28	20.52	5.42	21.38
700.0	6.77	20.35	6.64	20.49	6.33	20.79	5.52	21.60
725.0	6.68	20.75	6.55	20.87	6.27	21.16	5.50	21.92
750.0	6.60	21.12	6.48	21.24	6.20	21.52	5.46	22.26
775.0	6.50	21.50	6.38	21.62	6.12	21.89	5.40	22.61
800.0	6.49	21.79	6.38	21.90	6.12	22.16	5.43	22.85
825.0	6.56	21.99	6.46	22.09	6.22	22.33	5.58	22.97
850.0	6.65	22.16	6.55	22.26	6.32	22.49	5.70	23.10
875.0	6.68	22.38	6.58	22.48	6.37	22.69	5.77	23.29
900.0	6.59	22.71	6.50	22.81	6.29	23.01	5.72	23.58
925.0	6.42	23.13	6.33	23.21	6.14	23.41	5.59	23.95
950.0	6.32	23.46	6.23	23.54	6.04	23.74	5.49	24.28
975.0	6.40	23.60	6.32	23.68	6.13	23.87	5.61	24.39
1000.0	6.48	23.74	6.40	23.82	6.22	24.00	5.73	24.49
1050.0	6.54	24.10	6.47	24.18	6.30	24.35	5.83	24.81
1100.0	6.23	24.82	6.17	24.88	6.02	25.03	5.60	25.45
1150.0	5.94	25.49	5.88	25.55	5.74	25.69	5.35	26.08
1200.0	6.05	25.75	5.99	25.81	5.86	25.94	5.50	26.30
1250.0	6.17	25.99	6.12	26.04	6.00	26.16	5.66	26.49
1300.0	5.87	26.62	5.82	26.68	5.71	26.79	5.40	27.09
1350.0	5.44	27.38	5.40	27.43	5.30	27.53	5.02	27.81
1400.0	5.26	27.89	5.22	27.92	5.13	28.01	4.88	28.26
1450.0	5.32	28.13	5.28	28.17	5.19	28.26	4.94	28.51
1500.0	5.17	28.57	5.14	28.61	5.05	28.69	4.83	28.91
1550.0	4.72	29.30	4.69	29.34	4.62	29.41	4.42	29.61
1600.0	4.07	30.23	4.04	30.26	3.97	30.33	3.77	30.53
1650.0	3.40	31.17	3.37	31.20	3.31	31.26	3.14	31.43
1700.0	3.17	31.66	3.14	31.68	3.08	31.75	2.91	31.92
1750.0	3.28	31.80	3.26	31.82	3.21	31.87	3.07	32.02
1800.0	3.81	31.52	3.79	31.54	3.74	31.59	3.60	31.73
1850.0	3.91	31.65	3.89	31.67	3.85	31.71	3.74	31.83
1900.0	3.50	32.29	3.48	32.31	3.44	32.35	3.33	32.47
1950.0	2.99	33.03	2.98	33.04	2.95	33.07	2.86	33.16
2000.0	2.25	34.00	2.24	34.00	2.21	34.03	2.12	34.12
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Spitze der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Tip of Log. - Per. Structure</b>					

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An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## VULB 9160

Korrekturdaten für kurze Meßentfernung  
*Correction for Short Measuring Distance*



# SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## VULB 9160

### Korrekturdaten für kurze Meßentfernung (Mitte) Correction for Short Measuring Distance (Center)

Frequency	Gain(Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant.Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
25.0	-13.28	11.46	-13.61	11.79	-14.34	12.52	-16.14	14.32
27.0	-12.38	11.23	-12.71	11.56	-13.44	12.29	-15.24	14.09
30.0	-11.36	11.12	-11.69	11.45	-12.42	12.18	-14.22	13.98
35.0	-9.96	11.06	-10.29	11.39	-11.02	12.12	-12.82	13.92
40.0	-9.70	11.96	-10.03	12.29	-10.76	13.02	-12.56	14.82
45.0	-8.32	11.61	-8.65	11.94	-9.38	12.67	-11.18	14.46
50.0	-7.41	11.61	-7.74	11.94	-8.47	12.67	-10.27	14.47
60.0	-5.45	11.23	-5.78	11.57	-6.51	12.29	-8.31	14.09
70.0	-2.15	9.28	-2.48	9.60	-3.21	10.33	-5.01	12.13
80.0	0.65	7.63	0.32	7.96	-0.41	8.69	-2.21	10.49
90.0	0.56	8.74	0.23	9.08	-0.50	9.81	-2.30	11.61
100.0	0.82	9.40	0.49	9.73	-0.24	10.46	-2.04	12.26
110.0	0.63	10.41	0.30	10.75	-0.43	11.48	-2.23	13.28
120.0	0.36	11.44	0.03	11.78	-0.70	12.51	-2.50	14.30
130.0	0.81	11.69	0.48	12.02	-0.25	12.75	-2.05	14.55
140.0	0.93	12.21	0.60	12.54	-0.13	13.27	-1.93	15.07
150.0	0.91	12.84	0.58	13.16	-0.15	13.89	-1.95	15.69
160.0	1.26	13.04	0.93	13.37	0.20	14.10	-1.60	15.90
170.0	2.62	12.21	2.29	12.54	1.56	13.27	-0.24	15.07
180.0	4.58	10.74	4.25	11.08	3.52	11.81	1.72	13.61
190.0	6.04	9.75	5.75	10.05	5.09	10.70	3.47	12.33
200.0	6.93	9.31	6.67	9.57	6.09	10.15	4.62	11.62
210.0	7.40	9.26	7.17	9.50	6.65	10.01	5.32	11.34
220.0	7.48	9.59	7.28	9.79	6.82	10.24	5.65	11.42
230.0	7.27	10.19	7.09	10.36	6.70	10.76	5.65	11.80
240.0	7.12	10.70	6.97	10.86	6.61	11.21	5.68	12.14
250.0	7.18	11.00	7.05	11.13	6.74	11.44	5.93	12.25
260.0	7.23	11.29	7.12	11.40	6.86	11.66	6.17	12.35
270.0	7.18	11.67	7.08	11.76	6.87	11.98	6.27	12.57
280.0	7.12	12.04	7.04	12.12	6.86	12.30	6.37	12.79
290.0	7.12	12.35	7.06	12.41	6.92	12.55	6.53	12.94
300.0	7.15	12.61	7.10	12.66	6.99	12.77	6.68	13.08
325.0	7.22	13.23	7.21	13.25	7.18	13.28	7.09	13.37
350.0	7.35	13.75	7.37	13.73	7.41	13.69	7.53	13.58
375.0	7.35	14.35	7.39	14.31	7.50	14.20	7.80	13.91
400.0	7.38	14.88	7.45	14.82	7.60	14.66	8.06	14.20
425.0	7.27	15.52	7.35	15.43	7.55	15.24	8.14	14.65
450.0	7.13	16.15	7.23	16.05	7.47	15.81	8.19	15.09
475.0	7.19	16.57	7.31	16.45	7.59	16.16	8.45	15.30
500.0	7.26	16.94	7.39	16.81	7.71	16.49	8.67	15.53
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Mitte der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Center of Log. - Per. Structure</b>					

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An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## VULB 9160

### Korrekturdaten für kurze Meßentfernung (Mitte) Correction for Short Measuring Distance (Center)

Frequency	Gain(Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant.Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
525.0	7.25	17.38	7.39	17.23	7.74	16.88	8.82	15.81
550.0	7.11	17.92	7.26	17.76	7.63	17.40	8.78	16.25
575.0	6.94	18.48	7.11	18.31	7.51	17.91	8.77	16.64
600.0	6.81	18.98	6.99	18.80	7.41	18.37	8.75	17.03
625.0	6.74	19.40	6.92	19.21	7.37	18.77	8.79	17.35
650.0	6.73	19.75	6.92	19.56	7.39	19.09	8.89	17.59
675.0	6.75	20.05	6.95	19.86	7.43	19.38	8.96	17.84
700.0	6.77	20.35	6.98	20.15	7.48	19.64	9.10	18.03
725.0	6.68	20.75	6.90	20.53	7.42	20.01	9.12	18.31
750.0	6.60	21.12	6.82	20.90	7.36	20.37	9.10	18.62
775.0	6.50	21.50	6.72	21.28	7.27	20.73	9.06	18.95
800.0	6.49	21.79	6.72	21.56	7.28	21.00	9.11	19.18
825.0	6.56	21.99	6.80	21.75	7.38	21.17	9.29	19.26
850.0	6.65	22.16	6.89	21.92	7.49	21.32	9.44	19.37
875.0	6.68	22.38	6.93	22.13	7.53	21.53	9.53	19.53
900.0	6.59	22.71	6.84	22.46	7.46	21.85	9.50	19.80
925.0	6.42	23.13	6.68	22.87	7.30	22.24	9.39	20.15
950.0	6.32	23.46	6.58	23.20	7.20	22.57	9.29	20.48
975.0	6.40	23.60	6.66	23.34	7.30	22.70	9.44	20.56
1000.0	6.48	23.74	6.74	23.48	7.40	22.82	9.58	20.64
1050.0	6.54	24.10	6.81	23.83	7.47	23.17	9.70	20.94
1100.0	6.23	24.82	6.51	24.54	7.19	23.85	9.52	21.53
1150.0	5.94	25.49	6.22	25.21	6.92	24.51	9.29	22.14
1200.0	6.05	25.75	6.34	25.47	7.05	24.76	9.46	22.34
1250.0	6.17	25.99	6.46	25.70	7.18	24.98	9.65	22.51
1300.0	5.87	26.62	6.17	26.33	6.90	25.60	9.41	23.09
1350.0	5.44	27.38	5.74	27.09	6.48	26.34	9.05	23.78
1400.0	5.26	27.89	5.56	27.58	6.32	26.82	8.94	24.21
1450.0	5.32	28.13	5.62	27.82	6.38	27.07	9.00	24.45
1500.0	5.17	28.57	5.48	28.26	6.25	27.49	8.91	24.83
1550.0	4.72	29.30	5.03	28.99	5.81	28.21	8.53	25.50
1600.0	4.07	30.23	4.38	29.92	5.16	29.14	7.88	26.42
1650.0	3.40	31.17	3.72	30.85	4.51	30.06	7.28	27.29
1700.0	3.17	31.66	3.49	31.34	4.28	30.55	7.05	27.78
1750.0	3.28	31.80	3.60	31.48	4.41	30.67	7.22	27.86
1800.0	3.81	31.52	4.13	31.19	4.94	30.39	7.75	27.57
1850.0	3.91	31.65	4.24	31.33	5.05	30.51	7.92	27.64
1900.0	3.50	32.29	3.83	31.97	4.64	31.15	7.51	28.28
1950.0	2.99	33.03	3.32	32.70	4.15	31.87	7.07	28.95
2000.0	2.25	34.00	2.58	33.66	3.41	32.83	6.33	29.91
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Strahlungs</b> <b>-zone:</b>	<b>Mitte der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Radiating</b> <b>Zone:</b>	<b>Center of Log. - Per. Structure</b>					