

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111602

Description: 1/4" Pressure Microphone

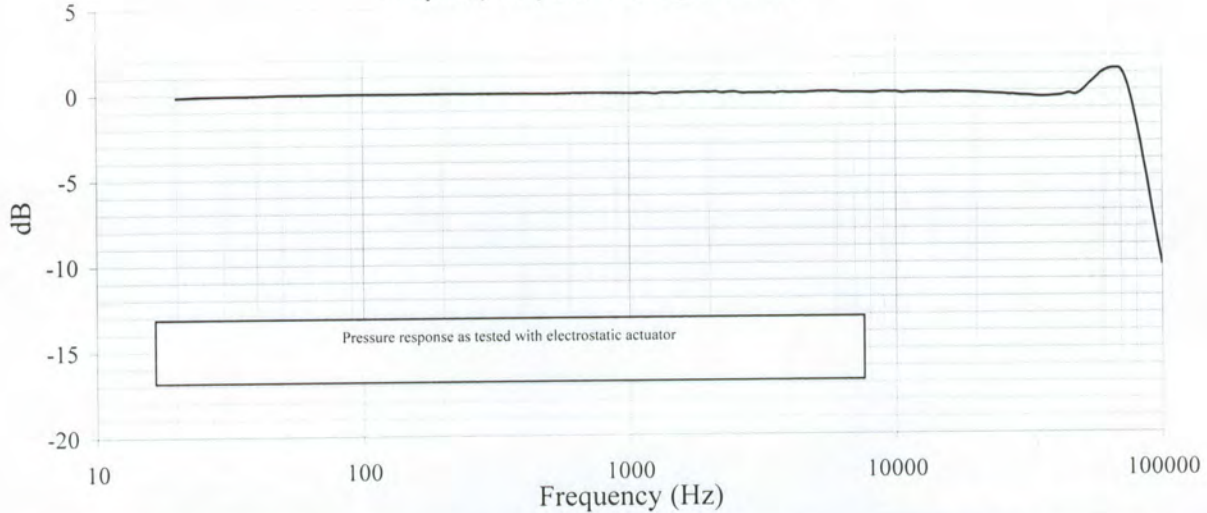
### Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.92 mV/Pa  
-60.72 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.4 pF

Temperature: 70 °F (21°C)      Ambient Pressure: 986 mbar      Relative Humidity: 22 %

*Frequency Response (0 dB @ 251.2 Hz)*



Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)
20.0	-0.13	1584.9	0.00	6683.4	-0.05	28250	-0.27
25.1	-0.07	1678.8	0.01	7079.5	-0.05	29750	-0.30
31.6	-0.05	1778.3	0.00	7498.9	-0.06	31500	-0.31
39.8	-0.04	1883.7	0.02	7943.3	-0.08	33500	-0.36
50.1	-0.01	1995.3	0.00	8414.0	-0.08	35500	-0.38
63.1	-0.01	2113.5	0.02	8912.5	-0.03	37500	-0.37
79.4	0.00	2238.7	-0.03	9440.6	-0.04	39750	-0.34
100.0	0.01	2371.4	0.00	10000.0	-0.04	42250	-0.30
125.9	0.00	2511.9	0.01	10592.5	-0.11	44750	-0.21
158.5	0.00	2660.7	-0.06	11220.2	-0.08	47250	-0.28
199.5	0.01	2818.4	-0.05	11885.0	-0.07	50000	-0.10
251.2	0.00	2985.4	-0.05	12589.3	-0.06	53000	0.28
316.2	0.00	3162.3	-0.05	13335.2	-0.08	56250	0.65
398.1	-0.01	3349.7	-0.04	14125.4	-0.09	59500	1.00
501.2	-0.02	3548.1	-0.06	14962.4	-0.08	63000	1.20
631.0	0.00	3758.4	-0.02	15848.9	-0.08	66750	1.25
794.3	0.00	3981.1	-0.04	16788.0	-0.09	70750	1.11
1000.0	-0.02	4217.0	-0.04	17782.8	-0.10	75000	0.10
1059.3	-0.02	4466.8	-0.04	18836.5	-0.11	79500	-1.61
1122.0	-0.01	4731.5	-0.03	19952.6	-0.13	84250	-3.66
1188.5	-0.02	5011.9	-0.01	21250.0	-0.15	89250	-5.82
1258.9	-0.06	5308.8	0.00	22500.0	-0.17	94500	-8.15
1333.5	-0.01	5623.4	-0.01	23750.0	-0.19	100000	-10.21
1412.5	-0.01	5956.6	0.00	25000.0	-0.21	-	-
1496.2	-0.02	6309.6	-0.05	26500.0	-0.24	-	-

Technician: Howard Brave      Date: December 22, 2008



3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID: STA60-3312797910 567

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111603

Description: 1/4" Pressure Microphone

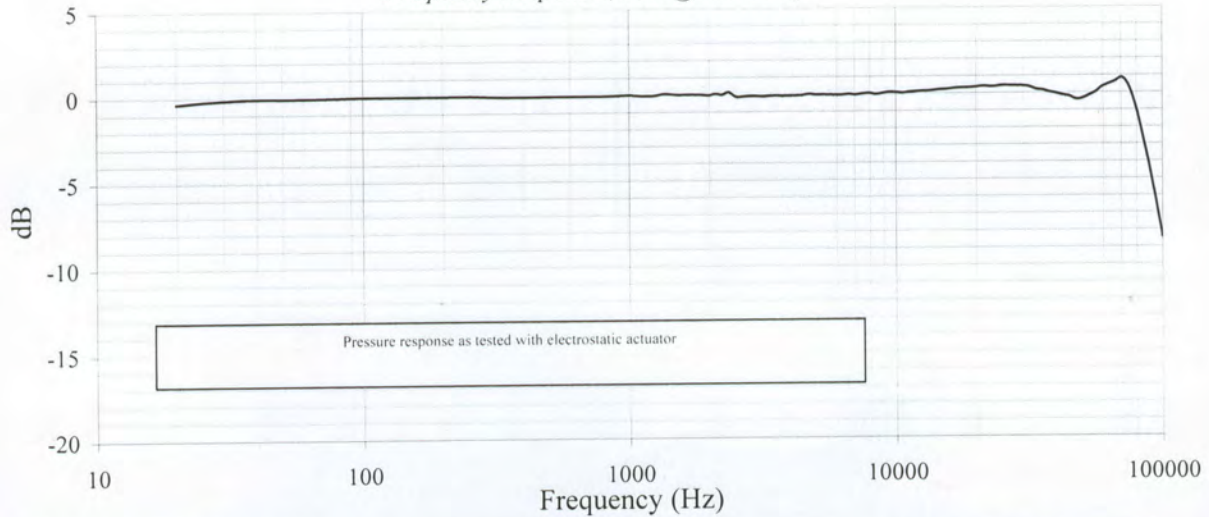
### Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.84 mV/Pa  
-61.51 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.3 pF

Temperature: 70 °F (21°C)      Ambient Pressure: 986 mbar      Relative Humidity: 22 %

*Frequency Response (0 dB @ 251.2 Hz)*



Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)
20.0	-0.34	1584.9	0.01	6683.4	-0.01	28250	0.42
25.1	-0.20	1678.8	0.02	7079.5	-0.04	29750	0.41
31.6	-0.12	1778.3	0.01	7498.9	0.01	31500	0.37
39.8	-0.06	1883.7	0.00	7943.3	0.04	33500	0.21
50.1	-0.07	1995.3	-0.02	8414.0	-0.02	35500	0.15
63.1	-0.06	2113.5	0.05	8912.5	0.03	37500	0.05
79.4	-0.03	2238.7	0.00	9440.6	0.10	39750	-0.03
100.0	-0.01	2371.4	0.14	10000.0	0.08	42250	-0.14
125.9	-0.01	2511.9	-0.12	10592.5	0.04	44750	-0.21
158.5	-0.01	2660.7	-0.12	11220.2	0.09	47250	-0.38
199.5	-0.01	2818.4	-0.09	11885.0	0.12	50000	-0.35
251.2	0.00	2985.4	-0.09	12589.3	0.14	53000	-0.17
316.2	-0.04	3162.3	-0.11	13335.2	0.15	56250	0.02
398.1	-0.05	3349.7	-0.09	14125.4	0.20	59500	0.32
501.2	-0.04	3548.1	-0.06	14962.4	0.23	63000	0.50
631.0	-0.04	3758.4	-0.09	15848.9	0.26	66750	0.66
794.3	-0.04	3981.1	-0.07	16788.0	0.30	70750	0.84
1000.0	0.01	4217.0	-0.07	17782.8	0.32	75000	0.35
1059.3	-0.02	4466.8	-0.05	18836.5	0.33	79500	-0.83
1122.0	-0.04	4731.5	0.01	19952.6	0.36	84250	-2.48
1188.5	-0.04	5011.9	-0.02	21250.0	0.40	89250	-4.25
1258.9	-0.02	5308.8	-0.02	22500.0	0.38	94500	-6.25
1333.5	0.06	5623.4	-0.03	23750.0	0.39	100000	-8.45
1412.5	0.06	5956.6	-0.04	25000.0	0.44	-	-
1496.2	0.02	6309.6	-0.04	26500.0	0.43	-	-

Technician: Howard Brave *WBS*      Date: December 22, 2008



3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID: STA60-3312798783.378

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111604

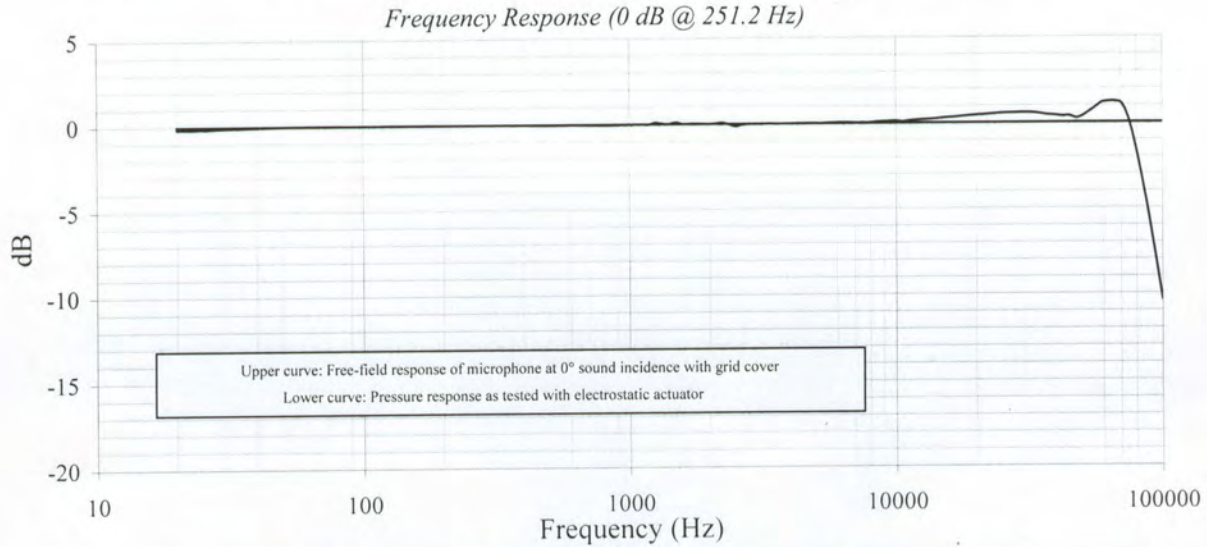
Description: 1/2" Free-Field Microphone

### Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.85 mV/Pa  
-61.41 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.3 pF

Temperature: 70 °F (21°C)      Ambient Pressure: 980 mbar      Relative Humidity: 23 %



Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)	Freq (Hz)	Lower (dB)	Upper (dB)
20.0	-0.14	U	1584.9	0.01	U	6683.4	0.05	U	28250	0.57	U
25.1	-0.13	U	1678.8	0.02	U	7079.5	0.03	U	29750	0.58	U
31.6	-0.07	U	1778.3	0.03	U	7498.9	0.04	U	31500	0.58	U
39.8	-0.03	U	1883.7	0.02	U	7943.3	0.03	U	33500	0.55	U
50.1	0.00	U	1995.3	0.00	U	8414.0	0.08	U	35500	0.49	U
63.1	0.01	U	2113.5	0.04	U	8912.5	0.10	U	37500	0.44	U
79.4	0.01	U	2238.7	0.08	U	9440.6	0.12	U	39750	0.41	U
100.0	0.00	U	2371.4	-0.03	U	10000.0	0.13	U	42250	0.37	U
125.9	0.01	U	2511.9	-0.14	U	10592.5	0.09	U	44750	0.39	U
158.5	0.01	U	2660.7	-0.04	U	11220.2	0.14	U	47250	0.26	U
199.5	0.00	U	2818.4	-0.01	U	11885.0	0.17	U	50000	0.35	U
251.2	0.00	U	2985.4	-0.01	U	12589.3	0.20	U	53000	0.61	U
316.2	0.00	U	3162.3	-0.01	U	13335.2	0.22	U	56250	0.89	U
398.1	-0.01	U	3349.7	0.01	U	14125.4	0.25	U	59500	1.15	U
501.2	-0.02	U	3548.1	-0.01	U	14962.4	0.28	U	63000	1.22	U
631.0	-0.01	U	3758.4	0.00	U	15848.9	0.31	U	66750	1.21	U
794.3	-0.03	U	3981.1	0.00	U	16788.0	0.34	U	70750	1.04	U
1000.0	-0.01	U	4217.0	0.01	U	17782.8	0.38	U	75000	0.11	U
1059.3	0.00	U	4466.8	0.01	U	18836.5	0.41	U	79500	-1.50	U
1122.0	0.00	U	4731.5	0.02	U	19952.6	0.44	U	84250	-3.47	U
1188.5	-0.01	U	5011.9	0.02	U	21250.0	0.47	U	89250	-5.60	U
1258.9	0.11	U	5308.8	0.01	U	22500.0	0.50	U	94500	-7.97	U
1333.5	0.04	U	5623.4	0.04	U	23750.0	0.53	U	100000	-10.38	U
1412.5	0.02	U	5956.6	0.04	U	25000.0	0.55	U	-	-	-
1496.2	0.11	U	6309.6	0.05	U	26500.0	0.56	U	-	-	-

Technician: Howard Brave *HJB*      Date: December 19, 2008



3425 Walden Avenue, Depew, New York, 14043  
TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID:STA60-3312561011 148

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111626

Description: 1/4" Pressure Microphone

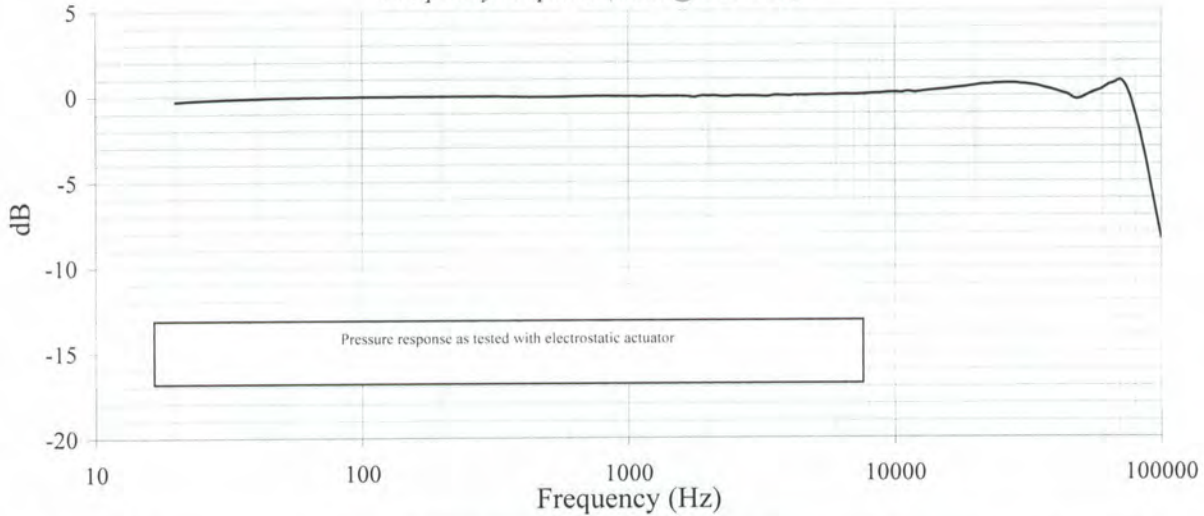
## Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.81 mV/Pa  
-61.83 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.2 pF

Temperature: 71 °F (22°C)      Ambient Pressure: 992 mbar      Relative Humidity: 23 %

*Frequency Response (0 dB @ 251.2 Hz)*



Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)
20.0	-0.28	1584.9	-0.01	6683.4	0.08	28250	0.70
25.1	-0.19	1678.8	-0.02	7079.5	0.07	29750	0.66
31.6	-0.14	1778.3	-0.07	7498.9	0.09	31500	0.63
39.8	-0.10	1883.7	0.00	7943.3	0.11	33500	0.57
50.1	-0.05	1995.3	0.00	8414.0	0.13	35500	0.47
63.1	-0.03	2113.5	0.00	8912.5	0.14	37500	0.38
79.4	-0.02	2238.7	-0.02	9440.6	0.18	39750	0.27
100.0	-0.01	2371.4	-0.03	10000.0	0.19	42250	0.13
125.9	-0.01	2511.9	0.00	10592.5	0.17	44750	0.02
158.5	0.00	2660.7	-0.01	11220.2	0.24	47250	-0.22
199.5	0.00	2818.4	-0.01	11885.0	0.18	50000	-0.19
251.2	0.00	2985.4	-0.01	12589.3	0.23	53000	0.00
316.2	0.00	3162.3	-0.02	13335.2	0.27	56250	0.18
398.1	-0.02	3349.7	-0.04	14125.4	0.31	59500	0.31
501.2	-0.03	3548.1	0.03	14962.4	0.35	63000	0.56
631.0	-0.01	3758.4	0.02	15848.9	0.38	66750	0.70
794.3	0.01	3981.1	0.00	16788.0	0.43	70750	0.84
1000.0	-0.01	4217.0	0.03	17782.8	0.47	75000	0.29
1059.3	-0.01	4466.8	0.03	18836.5	0.52	79500	-0.94
1122.0	-0.02	4731.5	0.03	19952.6	0.56	84250	-2.54
1188.5	-0.01	5011.9	0.04	21250.0	0.64	89250	-4.38
1258.9	0.00	5308.8	0.05	22500.0	0.64	94500	-6.44
1333.5	-0.01	5623.4	0.04	23750.0	0.68	100000	-8.39
1412.5	-0.01	5956.6	0.06	25000.0	0.69	-	-
1496.2	-0.01	6309.6	0.07	26500.0	0.70	-	-

Technician: Joe Ziewicki

Date: December 11, 2008



CALIBRATION CERT #1862.01



3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID: STA60-3311857884.617

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111627

Description: 1/4" Pressure Microphone

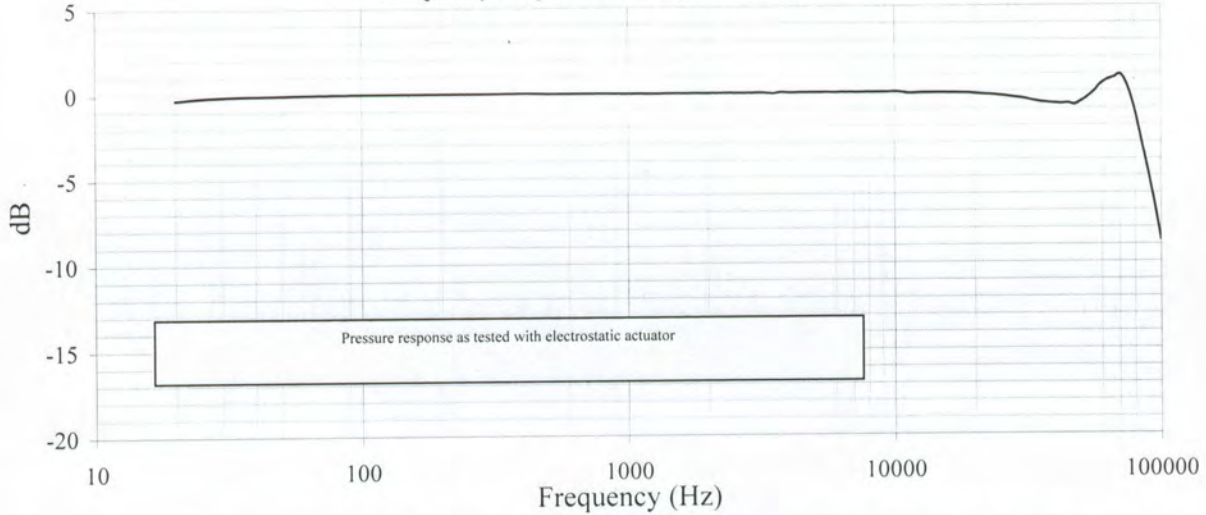
### Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.92 mV/Pa  
-60.72 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.4 pF

Temperature: 71 °F (22°C)      Ambient Pressure: 992 mbar      Relative Humidity: 23 %

*Frequency Response (0 dB @ 251.2 Hz)*



Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)
20.0	-0.29	1584.9	-0.02	6683.4	-0.02	28250	-0.37
25.1	-0.16	1678.8	-0.03	7079.5	-0.03	29750	-0.41
31.6	-0.10	1778.3	-0.02	7498.9	-0.03	31500	-0.49
39.8	-0.07	1883.7	-0.03	7943.3	-0.02	33500	-0.57
50.1	-0.05	1995.3	-0.03	8414.0	-0.02	35500	-0.65
63.1	-0.02	2113.5	-0.03	8912.5	-0.02	37500	-0.69
79.4	-0.01	2238.7	-0.03	9440.6	-0.02	39750	-0.72
100.0	0.00	2371.4	-0.02	10000.0	-0.01	42250	-0.74
125.9	0.00	2511.9	-0.03	10592.5	-0.03	44750	-0.72
158.5	0.00	2660.7	-0.03	11220.2	-0.10	47250	-0.81
199.5	0.00	2818.4	-0.03	11885.0	-0.10	50000	-0.63
251.2	0.00	2985.4	-0.03	12589.3	-0.08	53000	-0.38
316.2	0.00	3162.3	-0.02	13335.2	-0.08	56250	-0.04
398.1	0.02	3349.7	-0.05	14125.4	-0.08	59500	0.39
501.2	-0.01	3548.1	-0.07	14962.4	-0.08	63000	0.64
631.0	-0.01	3758.4	-0.01	15848.9	-0.09	66750	0.77
794.3	-0.01	3981.1	-0.03	16788.0	-0.09	70750	0.93
1000.0	-0.02	4217.0	-0.03	17782.8	-0.10	75000	0.26
1059.3	-0.02	4466.8	-0.02	18836.5	-0.11	79500	-1.04
1122.0	-0.02	4731.5	-0.02	19952.6	-0.14	84250	-2.84
1188.5	-0.03	5011.9	-0.02	21250.0	-0.17	89250	-4.62
1258.9	-0.03	5308.8	-0.02	22500.0	-0.19	94500	-6.60
1333.5	-0.03	5623.4	-0.02	23750.0	-0.22	100000	-8.75
1412.5	-0.02	5956.6	-0.03	25000.0	-0.26	-	-
1496.2	-0.02	6309.6	-0.02	26500.0	-0.30	-	-

Technician: Joe Ziewicki      Date: December 11, 2008



CALIBRATION CERT #1862 01



3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID: STA60-3311858329 749

# ~ Calibration Report ~

Microphone Model: 377B10

Serial Number: 111628

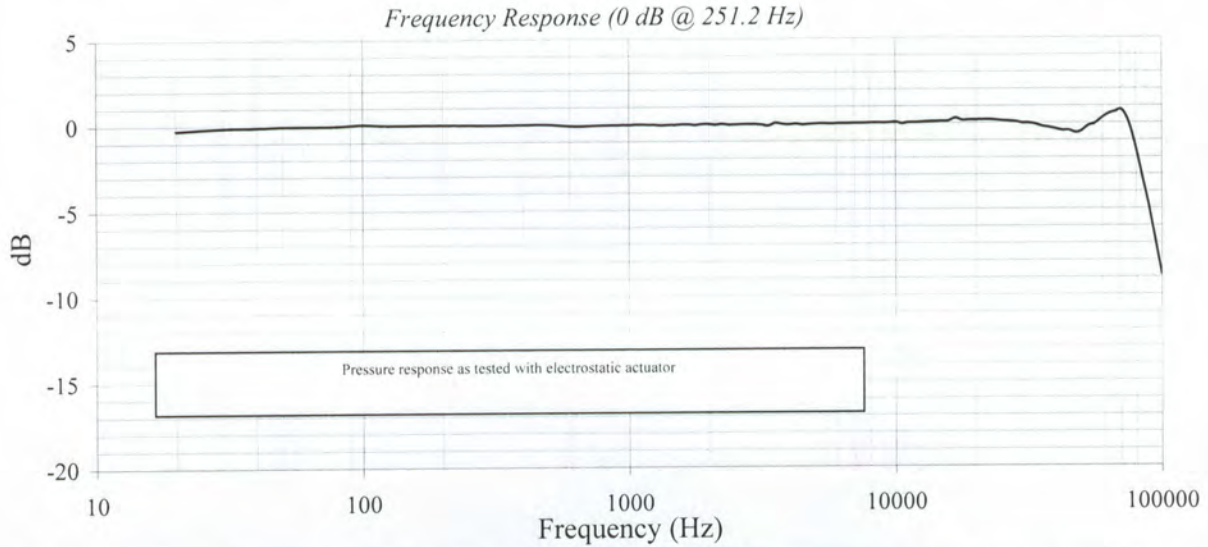
Description: 1/4" Pressure Microphone

### Calibration Data

Open Circuit Sensitivity @ 251.2 Hz: 0.88 mV/Pa  
-61.11 dB re 1V/Pa

Polarization Voltage, External: 0 V  
Capacitance: 5.3 pF

Temperature: 71 °F (22°C)      Ambient Pressure: 992 mbar      Relative Humidity: 23 %



Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)	Freq (Hz)	Actuator (dB)
20.0	-0.27	1584.9	-0.01	6683.4	0.02	28250	0.08
25.1	-0.17	1678.8	-0.01	7079.5	0.03	29750	-0.01
31.6	-0.11	1778.3	-0.04	7498.9	0.03	31500	-0.01
39.8	-0.09	1883.7	0.00	7943.3	0.04	33500	-0.08
50.1	-0.03	1995.3	0.01	8414.0	0.05	35500	-0.21
63.1	-0.03	2113.5	-0.03	8912.5	0.04	37500	-0.27
79.4	-0.02	2238.7	0.01	9440.6	0.05	39750	-0.35
100.0	0.06	2371.4	-0.03	10000.0	0.08	42250	-0.44
125.9	0.00	2511.9	-0.02	10592.5	-0.01	44750	-0.44
158.5	0.01	2660.7	-0.01	11220.2	0.05	47250	-0.57
199.5	0.01	2818.4	-0.01	11885.0	0.05	50000	-0.48
251.2	0.00	2985.4	-0.01	12589.3	0.08	53000	-0.18
316.2	-0.01	3162.3	-0.04	13335.2	0.10	56250	-0.04
398.1	0.01	3349.7	-0.11	14125.4	0.11	59500	0.26
501.2	0.01	3548.1	0.06	14962.4	0.12	63000	0.52
631.0	-0.09	3758.4	-0.01	15848.9	0.13	66750	0.64
794.3	-0.04	3981.1	-0.03	16788.0	0.30	70750	0.74
1000.0	-0.02	4217.0	0.00	17782.8	0.17	75000	0.07
1059.3	-0.01	4466.8	-0.04	18836.5	0.19	79500	-1.31
1122.0	-0.01	4731.5	-0.02	19952.6	0.19	84250	-3.06
1188.5	-0.02	5011.9	0.00	21250.0	0.20	89250	-4.80
1258.9	-0.02	5308.8	0.02	22500.0	0.20	94500	-6.85
1333.5	-0.05	5623.4	0.00	23750.0	0.17	100000	-8.84
1412.5	-0.03	5956.6	0.01	25000.0	0.13	-	-
1496.2	-0.03	6309.6	0.02	26500.0	0.12	-	-

Technician: Joe Ziewicki *JZ*

Date: December 11, 2008



3425 Walden Avenue, Depew, New York, 14043

TEL: 888-684-0013      FAX: 716-685-3886      www.pcb.com

ID: STA60-3311856815.934