

<b>Open Office Test Loudspeaker #OO 0687-11 GENERIC PERFORMANCE:</b> <b>[Data taken outdoors, at 1m distance</b> <b>and at a height of 5' (1.5 m) over a grassy surface. *Speaker drive level = 5.4v rms wideband pink noise.]</b>						
1/3 Octave Band Frequency	1/3 octave Sound Pressure Level*	GENERIC DIRECTIVITY PATTERN UNIFORMITY (+dB)				
		(Fixed sound level meter microphone, loudspeaker slew angle=)				
Hz	dB re 20 uPa	25°UP	25°CW	0° Reference	25°CCW	25°Down
100	66					
125	72	-0.7	+0.2	0	+0.1	-0.4
160	75	-0.4	+0.3		+0.1	-0.2
200	75	-0-	+0.1		0	+0.1
250	73	-0.4	+0.2	0	-0.7	-0.3
315	75	-0.7	-0.5		-0.3	-1.3
400	78	0.2	-0.4		+0.3	+0.4
500	78	-0.7	-0.4	0	-1.1	-0.8
630	80	-1.0	-0.6		-0.5	-0.8
800	82	-0.2	-0.3		-0.9	-0.1
1,000	82	-1.2	-1.2	0	-1.1	-1.2
1,250	83	-0.7	-1.0		-0.9	-0.5
1,600	86	-1.2	-1.2		-1.1	-0.9
2,000	78	-0.7	-0.8	0	-0.8	-0.8
2,500	75	+0.5	+1.1		+1.0	+0.9
3,150	71	+0.1	-0.3		-0.6	+0.2
4,000	73	-1.7	-2.0	0	-2.1	-1.5
5,000	79	-1.7	-0.6		-0.8	-0.5
6,300	80	-2.1	-1.8		-0.5	-0.4
8,000	80	-2.7	-4.9	0	-1.7	-4.3
10,000	79					
92.9 dBA						

- (1) 1/3 octave SPL Calibration was performed 26May 2010 at an outdoor site at a height of 5' (1.5 m) over grass and according to ASTM E1179. Test radius was 1.0 m from the sound aperture. Test microphone was a Larson-Davis type 2559 S/N 1612 microphone corrected to free field and calibrated at 250 Hz with a B&K Type 4220 Pistonphone. Air temperature = 21°C 70F). Pressure = 985 mB (815 ft Elev.). Speaker driving signal was 5.4 vac broadband pink noise.
- (2) These data may be used to qualify the test speaker for performing ASTM open-office component tests and ASTM E1130 for open office speech privacy.
- (3) NOTE: The directivity pattern can be made more constant at 4,000 Hz by placing a 1" thick sound absorber such as fiberglass liner board, on the front of the speaker, with a 5 cm diameter cutout hole to allow sound to pass.