



REV	DATE	ID	DESCRIPTION
0.0	9-Oct-07	RS	Original Drawing
0.1	5-Nov-07	RS	Updated wire connection
1.0	7-Nov-07	RS	Updated P/N and added P/N to speaker
1.1	9-Nov-07	RS	Updated height
1.2	12-Nov-07	RS	Updated wire length
1.3	15-Nov-07	RS	Changed wire type
1.4	12-Dec-07	RS	Updated Fo
1.5	29-Jan-08	RS	Added buzz and rattle test

ITEM	SPECIFICATION	REMARKS
1	Dimensions	50mm
2	Impedance	$8.0\Omega \pm 15\%$
3	Input Power	0.5W/1W
4	Lowest Resonant Frequency, F_0	$240\text{Hz} \pm 20\%$
5	SPL	$88\text{dB} \pm 3\text{dB}$
6	Total Harmonic Distortion	Max. 5%
7	Effective Frequency Range	F_0 to 6kHz
8	Magnet Dimension	$\phi 12.5 \times 3 \text{ mm}$
TESTS		
9	Operation Test	EIA white noise of 0.5 W is applied for 96h.
10	Max. Input Power	The speaker shall be exposed to EIA white noise of 1W for 1min.
11	Buzz and rattle test	No Buzz or rattle should occur when the speaker is subjected to 1.4 Vrms from F_0 to 6kHz
12	Polarity	A positive DC current is applied to the terminal marked +
13	Vibration (no box)	10 sweeps of 3 minute duration from 10Hz-30Hz-10Hz (Double Amplitude - 0.75mm) 10 sweeps of 3 minute duration from 30Hz-55Hz-30Hz (Double Amplitude - 0.55mm)
14	Drop Test (in box)	Speakers properly packaged in their shipping carton are dropped on each side of the carton except the top from a height of 80cm (carton GW=10kg) or 60cm (10kg<carton GW=25kg)
15	Low Temperature Exposure	The speaker shall be exposed to $-25 \pm 2^\circ\text{C}$, 50% RH for 96h with a 1h rest at room temperature.
16	High Temperature Exposure	The speaker shall be exposed to $70 \pm 3^\circ\text{C}$, 50% RH for 96h with a 1h rest at room temperature.
17	Humidity Exposure	The speaker shall be exposed to $40 \pm 3^\circ\text{C}$, 92% RH for 96h with a 1h rest at room temperature.

NOTES: All dimensions in mm.
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Stetron International Inc.
LoudSpeaker Specification
50mm, 8.0Ω , Nd-Fe-B magnet, 0.5W, RoHS compliant

SIZE	DRAWN BY	PART No.
A	RS	D0050008NC22JAR
SCALE	DATE	SHEET
N/A	29-Jan-08	1 of 1
REV	DWG No. / FILE	
1.5		DB07-072