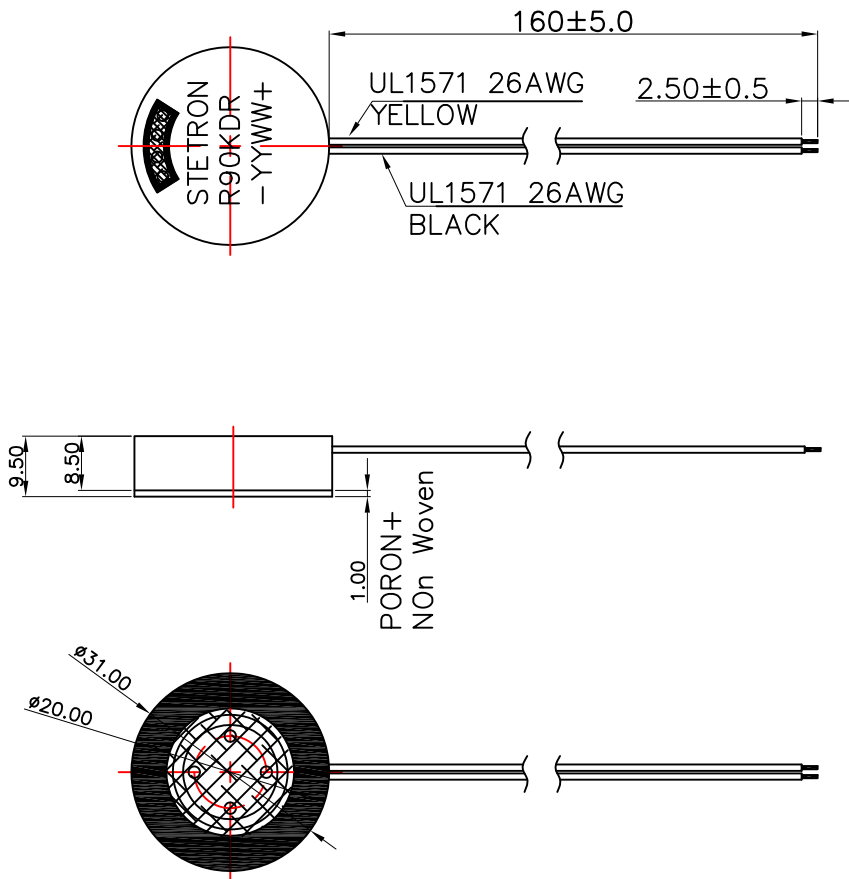
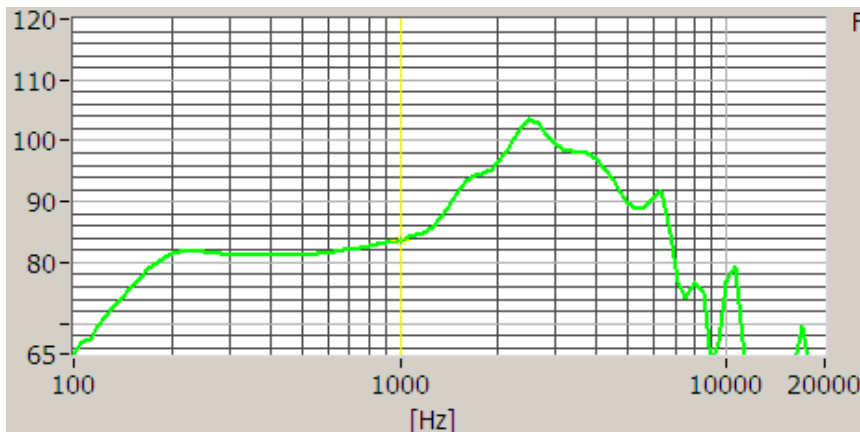


REV	DATE	ID	DESCRIPTION
0.0	21-Sep-12	RC	Original Drawing - From DB10-064 Rev.0.1
0.1	9-Oct-12	RC	Updated freq. response graph and specifications table SPL
0.2	16-Oct-12	RC	Added various freq. response graphs & THD curves
0.3	22-Oct-12	RC	Removed preliminary spec stamp & updated specification remarks



Typical frequency response (61mVrms/ W/IEC 711 type 3.2 high leak artificial ear)



ITEM	SPECIFICATION	REMARKS
1	Dimensions	31 mm x 9.5 mm
2	Impedance	90.0Ω±15%
3	Input Power	10 mW/30 mW
4	Output SPL (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	83dB ±3dB
5	Output SPL (on IEC 318 Type 1 Coupler - B&K 4185)	92dB ±3dB
6	Total Harmonic Distortion (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	Max. 5%
7	Total Harmonic Distortion (on IEC 318 Type 1 Coupler - B&K 4185)	Max. 5%
8	Effective Frequency Range	200 Hz to 6 kHz
9	Magnet Dimension	49.5 x 1.8 mm
<b>TESTS</b>		
10	Operation Test	White noise of 10 mW is applied for 96h.
11	Max. Input Power	The speaker shall be exposed to white noise of 30 mW for 1min.
12	Buzz Test	0.95 Vrms applied from Fo to 6kHz
13	Polarity	A positive DC current is applied to the terminal marked +
14	Drop Test (in box)	The dynamic receiver is dropped on each from a height of 100cm at an angle of 75 degrees
15	Low Temperature Exposure	The speaker shall be exposed to -25 ±2°C, 50%RH for 96h with a 2h rest at room temperature.
16	High Temperature Exposure	The speaker shall be exposed to 60 ±3°C, 50%RH for 96h with a 2h rest at room temperature.
17	Humidity Exposure	The speaker shall be exposed to 40±3°C, 90%RH for 96h with a 2h rest at room temperature.

NOTES: All dimensions in mm.  
QB12197  
Tolerance is ±0.3

The Drawing and Information contained on this sheet are confidential and proprietary to Stetron International Inc. Reproduction through any means is prohibited and the information contained herewith shall not be used either in whole or in part without the written consent of Stetron International Inc.

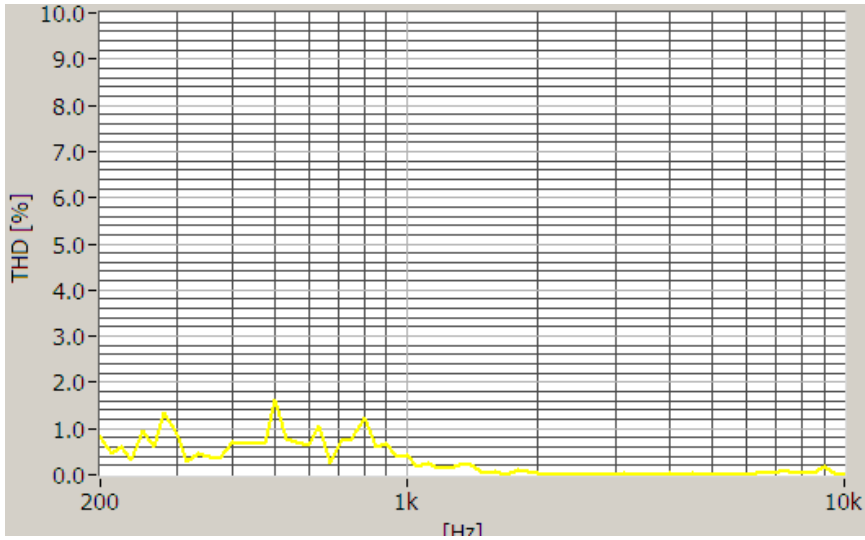


Stetron International Inc.

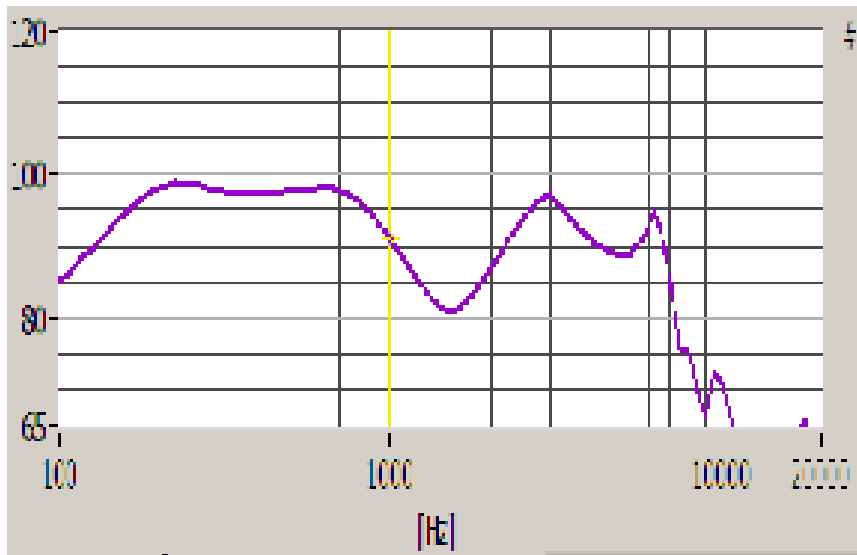
Dynamic receiver Specification  
31mm, 90.0Ω, wide band enclosed  
10 mW, RoHS

SIZE	DRAWN BY	PART No.	
A	RC	DR0031090E11KDR	
SCALE	DATE	SHEET	
N/A	22-Oct-12	1 of 1	
REV	DWG No. / FILE		
0.3		DB12-038	

Typical THD curve(61Vrms/W/IEC 711 Type 3.2 high leak artificial ear)



Typical frequency response(61mvrms/W/IEC 318 Type 1 coupler)




REV	DATE	ID	DESCRIPTION
0.0	21-Sep-12	RC	Original Drawing - From DB10-064 Rev0.1
0.1	9-Oct-12	RC	Updated freq. response graph and specifications table SPL
0.2	16-Oct-12	RC	Added various freq. response graphs & THD curves
0.3	22-Oct-12	RC	Removed preliminary spec stamp & updated specification remarks

ITEM	SPECIFICATION	REMARKS	
1	Dimensions	31 mm x 9.5 mm Outside Diameter x Height	
2	Impedance	90.0Ω ±15% @ 1k-Hz/0.948V	
3	Input Power	10 mW/30 mW Rated/Max	
4	Output SPL (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	83dB ±3dB Measured @61 mVrms@1 k-Hz	
5	Output SPL (on IEC 318 Type 1 Coupler - B&K 4185)	92dB ±3dB Measured @61 mVrms @1 k-Hz	
6	Total Harmonic Distortion (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	Max. 5% 200 Hz- 6 k-Hz @ 150mVrms	
7	Total Harmonic Distortion (on IEC 318 Type 1 Coupler - B&K 4185)	Max. 5% 200 Hz- 6 k-Hz @ 61mVrms	
8	Effective Frequency Range	200 Hz to 6 k-Hz See typical frequency response	
9	Magnet Dimension	∅9.5 x 1.8 mm OD x H	
<b>TESTS</b>			
10	Operation Test	White noise of 10 mV is applied for 96h.	
11	Max. Input Power	The speaker shall be exposed to white noise of 30 mW for 1min.	The receiver must meet items 4 to 8 after test
12	Buzz Test	0.95 Vrms applied from Fo to 6k-Hz	There shall be no extraneous noise
13	Polarity	A positive DC current is applied to the terminal marked +	The diaphragm shall move forward
14	Drop Test (in box)	The dynamic receiver is dropped on each from a height of 100cm at an angle of 75 degrees	There shall be no buzz/rattle and the part shall exhibit no physical damage
15	Low Temperature Exposure	The speaker shall be exposed to -25 ±2°C, 50%RH for 96h with a 2h rest at room temperature.	The receiver must meet items 4 to 8 after test
16	High Temperature Exposure	The speaker shall be exposed to 60 ±3°C, 50%RH for 96h with a 2h rest at room temperature.	
17	Humidity Exposure	The speaker shall be exposed to 40±3°C, 90%RH for 96h with a 2h rest at room temperature.	

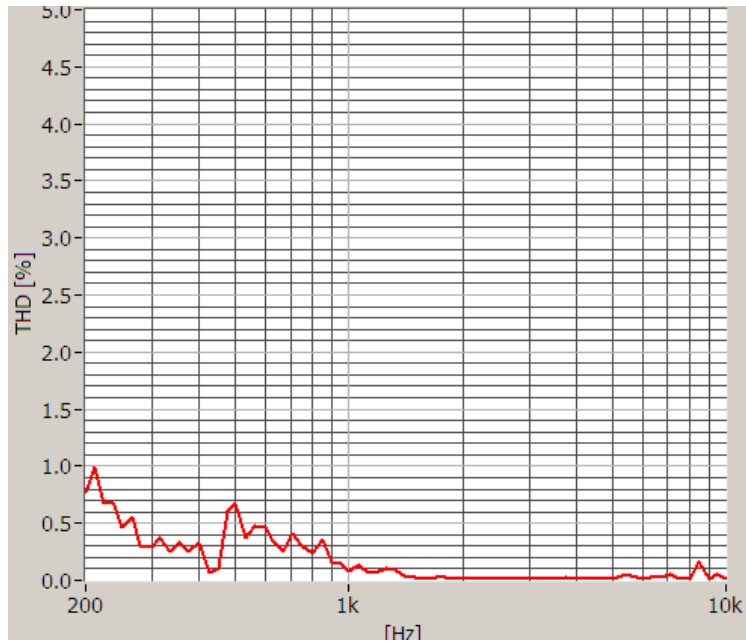
NOTES: All dimensions in mm.  
QB12197  
Tolerance is ±0.3

The Drawing and Information contained on this sheet are confidential and proprietary to Stetron International Inc. Reproduction through any means is prohibited and the information contained herewith shall not be used either in whole or in part without the written consent of Stetron International Inc.

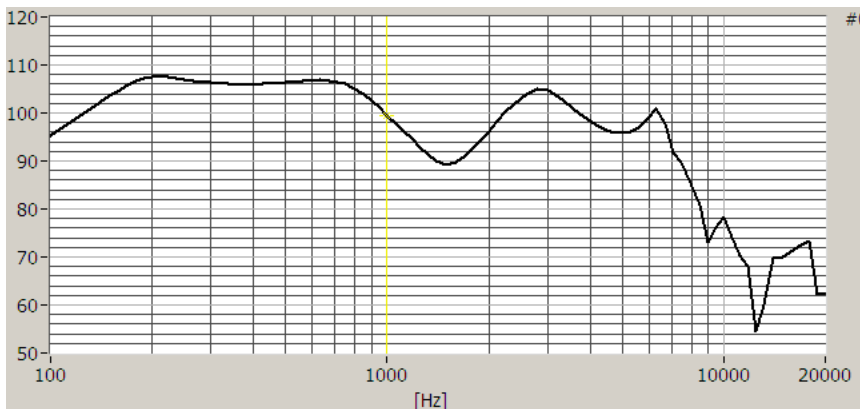
 Stetron International Inc.	Dynamic receiver Specification 31mm, 90.0Ω, wide band enclosed 10 mW, RoHS		
	SIZE <b>A</b>	DRAWN BY RC	PART No. <b>DR0031090E11KDR</b>
	SCALE N/A	DATE <b>22-Oct-12</b>	SHEET 2 of 3
	REV <b>0.3</b>	DWG No. / FILE <b>DB12-038</b>	

REV	DATE	ID	DESCRIPTION
0.0	21-Sep-12	RC	Original Drawing - From DB10-064 Rev0.1
0.1	9-Oct-12	RC	Updated freq. response graph and specifications table SPL
0.2	16-Oct-12	RC	Added various freq. response graphs & THD curves
0.3	22-Oct-12	RC	Removed preliminary spec stamp & updated specification remarks


Typical THD curve(150Vrms/W/IEC 711 Type 3.2 high leak artificial ear)



Typical frequency response(150mvrms/W/IEC 318 Type 1 coupler)



ITEM	SPECIFICATION	REMARKS
1	Dimensions	31 mm x 9.5 mm Outside Diameter x Height
2	Impedance	90.0Ω±15% @ 1k-Hz/0.948V
3	Input Power	10 mW/30 mW Rated/Max
4	Output SPL (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	83dB ±3dB Measured @61 mVrms @1 k-Hz
5	Output SPL (on IEC 318 Type 1 Coupler - B&K 4185)	92dB ±3dB Measured @61 mVrms @1 k-Hz
6	Total Harmonic Distortion (on IEC 711, Type 3.2 High Leak Coupler - B&K 4195)	Max. 5% 200 Hz- 6 k-Hz @ 150mVrms
7	Total Harmonic Distortion (on IEC 318 Type 1 Coupler - B&K 4185)	Max. 5% 200 Hz- 6 k-Hz @ 61mVrms
8	Effective Frequency Range	200 Hz to 6 k-Hz See typical frequency response
9	Magnet Dimension	Φ8.5 x 1.8 mm OD x H
<b>TESTS</b>		
10	Operation Test	White noise of 10 mW is applied for 96h.
11	Max. Input Power	The speaker shall be exposed to white noise of 30 mW for 1min.
12	Buzz Test	0.95 Vrms applied from Fo to 6k-Hz
13	Polarity	A positive DC current is applied to the terminal marked +
14	Drop Test (in box)	The dynamic receiver is dropped on each from a height of 100cm at an angle of 75 degrees
15	Low Temperature Exposure	The speaker shall be exposed to -25 ±2°C, 50%RH for 96h with a 2h rest at room temperature.
16	High Temperature Exposure	The speaker shall be exposed to 60 ±3°C, 50%RH for 96h with a 2h rest at room temperature.
17	Humidity Exposure	The speaker shall be exposed to 40±3°C, 90%RH for 96h with a 2h rest at room temperature.

<p>NOTES: All dimensions in mm. QB12197 Tolerance is ±0.3</p> <p>The Drawing and Information contained on this sheet are confidential and proprietary to Stetron International Inc. Reproduction through any means is prohibited and the information contained herewith shall not be used either in whole or in part without the written consent of Stetron International Inc.</p>	 <b>Stetron International Inc.</b>		Dynamic receiver Specification 31mm, 90.0Ω, wide band enclosed 10 mW, RoHS	
	SIZE	DRAWN BY	PART No.	
	<b>A</b>	RC	<b>DR0031090E11KDR</b>	
	SCALE	DATE	SHEET	
	N/A	22-Oct-12	3 of 3	
REV	DWG No. / FILE			
0.3		<b>DB12-038</b>		