



PUI audio



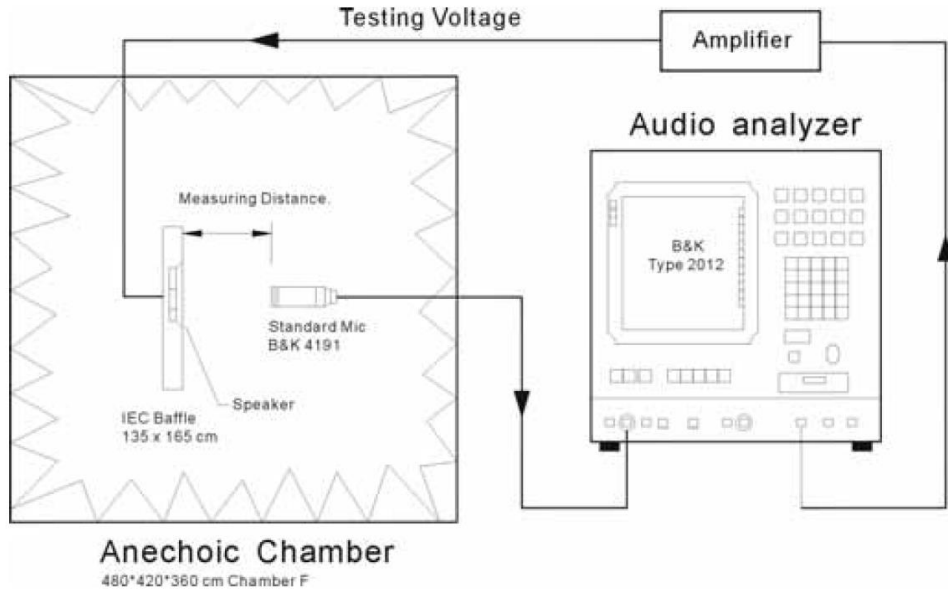
Data Sheet

AS02808MR-3-LW80-R

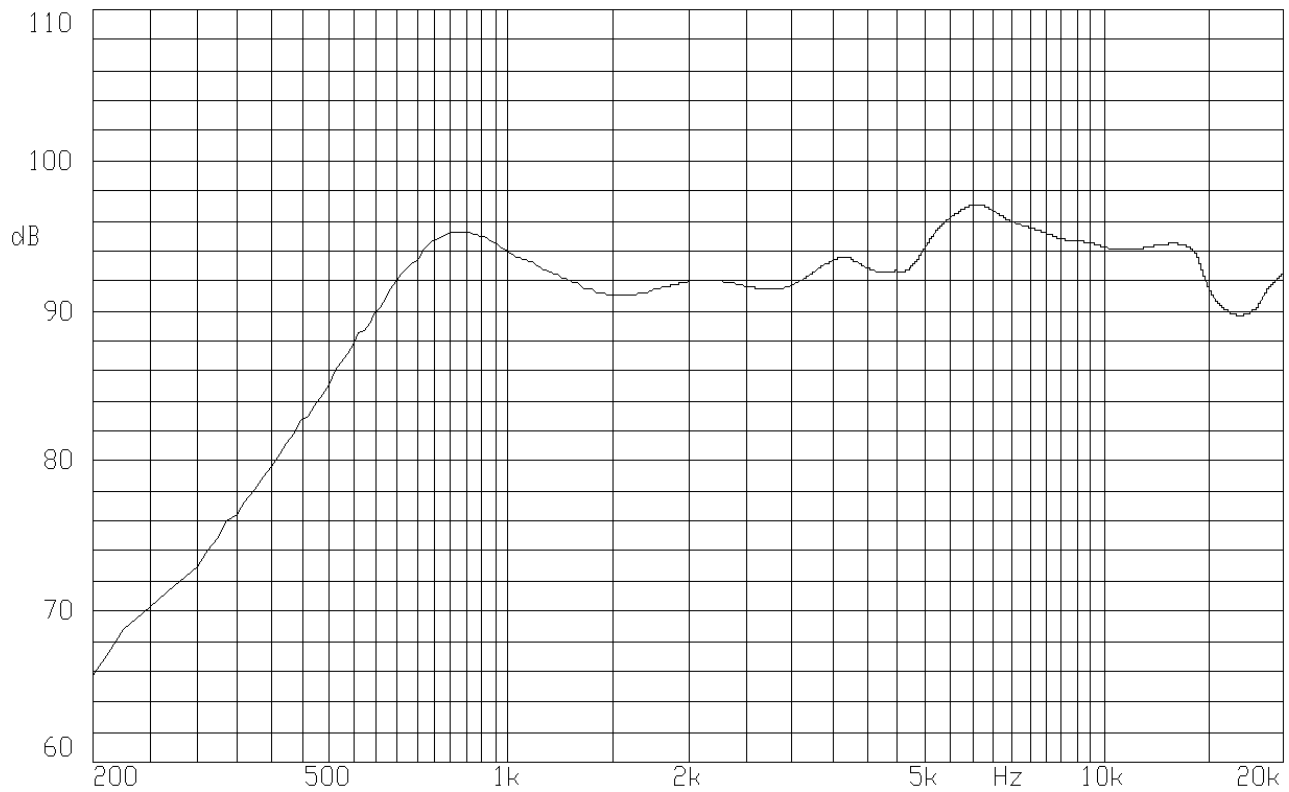
Specifications

Parameters	Values	Units
Rated Input Power	0.5	Watts
Max Input Power	1.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL (Avg. 1.0k, 1.2k, 1.5kHz @ 0.1W/0.1m average)	92 ± 3	dB
Resonant Frequency (f_0)	$750 \pm 20\%$	Hz
Frequency Range (-6dB SPL)	$f_0 \sim 7,000$	Hz
THD (1kHz, 0.5W Drive)	≤ 5	%
Diaphragm Material	Mylar	-
Frame Material	PBT	-
Magnet Material	NdFeB	-
Weight	12	Grams
Buzz, Rattle, etc.	Must not be audible with 2.83V _{RMS} sine wave between 100 ~ 2kHz	-
Environmental Protection Rating	ROHS/REACH	-
Polarity	Cone moves forward with positive dc current applied to "+" terminal	-
Storage Temperature	-30 ~ 60	°C
Operating Temperature	-20 ~ 60	°C

Measurement Method (Measured with 0.1W, Temperature: 15 ~ 35°C, Relative Humidity: 25%~70%/)



Typical Frequency Response (Measured with 0.1W drive, distance = 10cm)

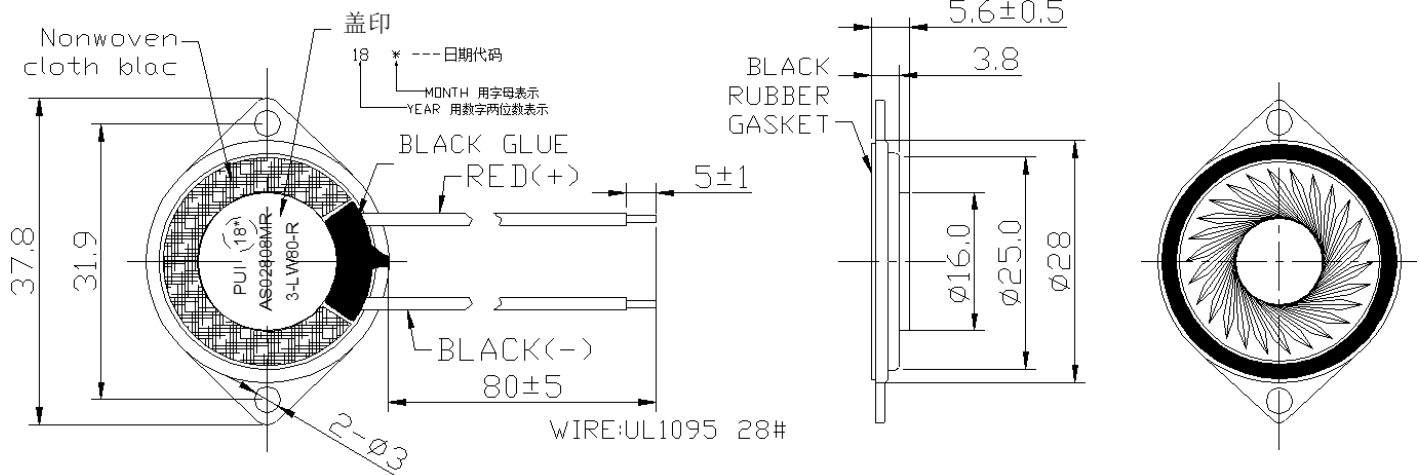


Reliability Testing

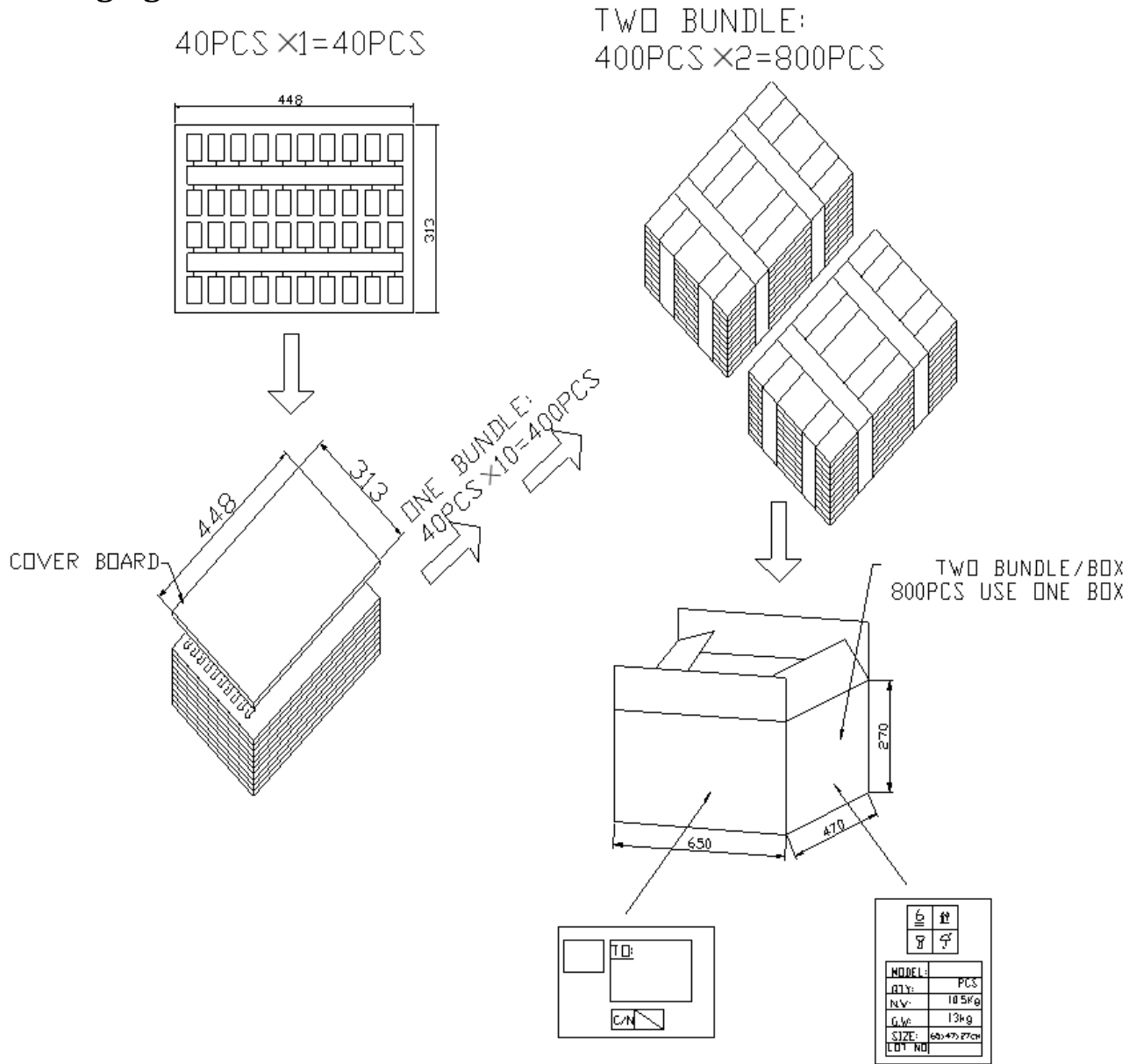
Type of Test	Test Specifications
High Temperature Test	96 hours at 60±3°C
Low Temperature Test	96 hours at -30±3°C
Humidity Test	96 hours at 40±3°C with relative humidity at 92~95%
Temperature Cycle Testing	Low temperature: -30°C±3°C, temperature: +60°C±3°C, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
Vibration Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
Drop Test	Free drop a unit from 100cm height to a board of 20mm thick x,y, z 6 direction. 1 times each, total 6 times.
Load Test	Must perform normal with program White-Noise source at Rated Power for 96 Hours

After each test let rest for 6 hours in standard room temperature, the part shall be within ±3dB.

Dimensions (Tolerance: ±0.3mm, unless otherwise specified.)



Packaging



Specifications Revisions

Revision	Description	Date
A	Released from Engineering	01/08/2018

Note:

- Unless otherwise specified:
 - All dimensions are in millimeters.
 - Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
- Specifications subject to change or withdrawal without notice.