

DYNAMIC SPEAKER UNIT

Acoustic Product Specification

Product Number: SP-4005-3Y



Release | Revision: A/2018

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Dimensions

Electrical Specification	
Item	Specification
Dimensions	Ø40.0 x H5.5mm
Rated Input Power	0.5W
Maximum Input Power	0.8 W
Sound Pressure Level	91±3dB (Input: 0.1m/0.1W) at 1.2, 1.5, 1.8, 2.0kHz in average (0dB SPL=20µPa)
Impedance	32Ω±20% (at 1 KHz, 1V)
Lower Resonance Frequency	480±20%Hz
Frequency Response	f0 ~ 20kHz (at -10dB)
Distortion	5% max (at 1KHz, 0.1m/0.5W)
Operation	It shall be normal. Input 4VRMS sine wave.
Polarity	When a positive DC current is applied to the terminal marked (+), the diaphragm moves forward.

Reliability Test		
Item	Method of Test Standard	
Load Test	Input Power: 0.5W white noise Duration: 96 hours	
Humidity Test	Temperature: 40°C Relative Humidity: 90~95% Duration: 96 hours	
High Temperature Test	Temperature: 80°C Duration: 96 hours	
Low Temperature Test	Temperature: -20°C Duration: 96 hours	
Thermal Shock Test	High Temperature: 80°C Low Temperature: -20°C Number of Cycles: 5 cycles Duration of Exposure: 2 hours at each temperature Duration of Recovery: 1 hour	
Vibration Test	Amplitude: 1.5 mm Frequency: 10 ~ 55 Hz Sweep Time: 1 minute Axes: 3 axes Duration: 2 hours on each axes	
Drop Test	Drop an unpacked unit onto a board 20mm thick 10 times from a height of 100cm.	



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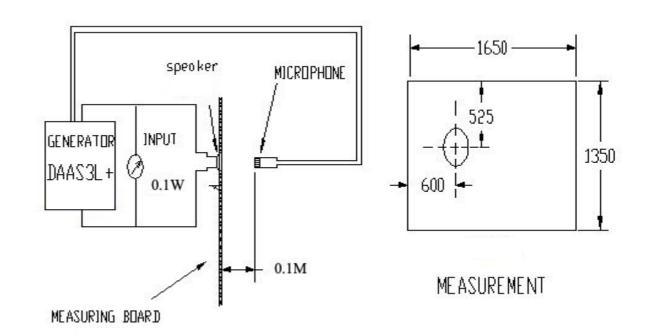
Typical Frequency Response Curve

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Dimensions

Temperature Condition		
Item	Specification	
Operation Temperature Range	-20°C ~ 60°C	
Storage Temperature Range	-25°C ~ 80°C	

Test Setup



Typical Frequency Response Curve





Tolerance: ± 0.2mm.



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