

DYNAMIC SPEAKER UNIT

Acoustic Product Specification

Product Number: SP-3005Y



Release | Revision: A/2018

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Dimensions

	Speaker Specification	
Item	Specification	
Dimensions	Ø30.0 x 5.3 mm	
Rated Input Power	1.0 W	
Maximum Input Power	1.5 W	
Sound Pressure Level	87±2dB (Input :0.5m/1W) at 1.0, 1.5, 2.0, 2.5KHz in average (0dB SPL=20μPa)	
Impedance	$8\Omega \pm 1.2\Omega$ (at 1.5 KHz,1.0V)	
Lower Resonance Frequency	650±130Hz (No Baffle)	
Frequency Response	520Hz~8KHz (at -10dB)	
Distortion	10% max (at 1KHz, 0.5m/1.0W)	
Operation	Input power: 1.0W 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: 1.0W (2.8V) white noise Duration: 96 hours				
Humidity Test	Temperature: 40°C Relative Humidity: 90~95% Duration: 96 hours				
High Temperature Test	Temperature: 70°C Duration: 96 hours				
Low Temperature Test	Temperature: -20°C Duration: 96 hours				
Thermal Shock Test	High Temperature: 70°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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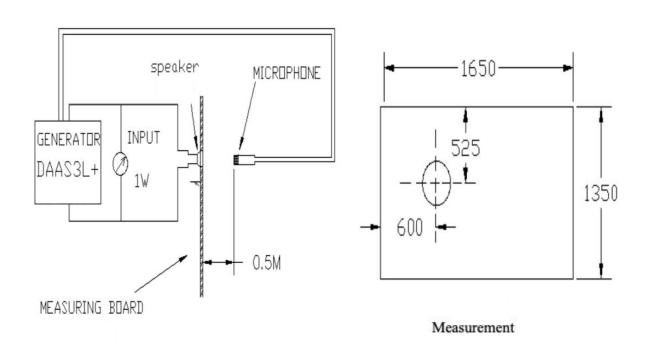
Typical Frequency Response Curve

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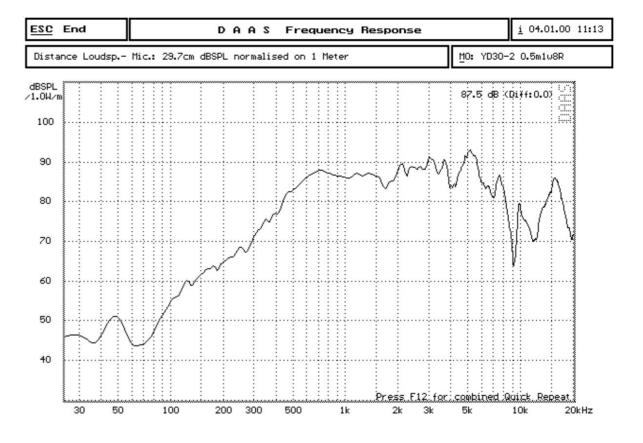
Dimensions

Temperature Condition				
Item	Specification			
Operation Temperature Range	-20°C ~ 60°C			
Storage Temperature Range	-25°C ~ 70°C			

Test Setup



Typical Frequency Response Curve







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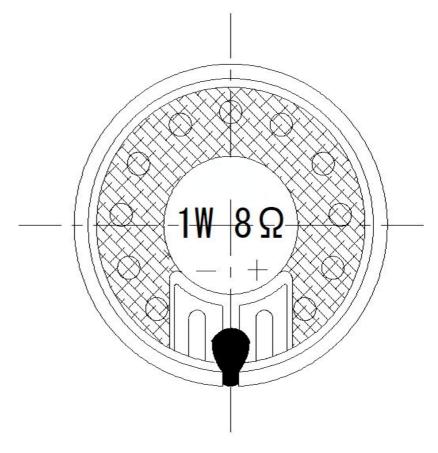
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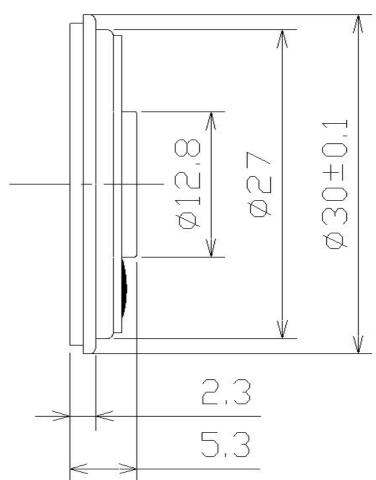
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No.	Part Name	Material	Quantity
1	Frame	Metal	1
2	Magnet	Nd-Fe-B	1
3	YOKE	Metal	1
4	Diaphragm	PET	1