

# SPECIFICATION

Part Name:	Micro Dynamic Speaker
SSE Model No. :	ST404004-30
Number Of The Edition:	1.0
Customer:	
Customer's Model No. :	

SSE	DESIGNED	CHECKED	APPROVED
SIGNATURE	M.L. Zhou	H.F.Yuan	G.R. Wu
DATE	2017-2-12	2017-2-12	2017-2-12

CUSTOMER CONFIRMATION	
SIGNATURE:	
DATE:	

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## A. SCOPE

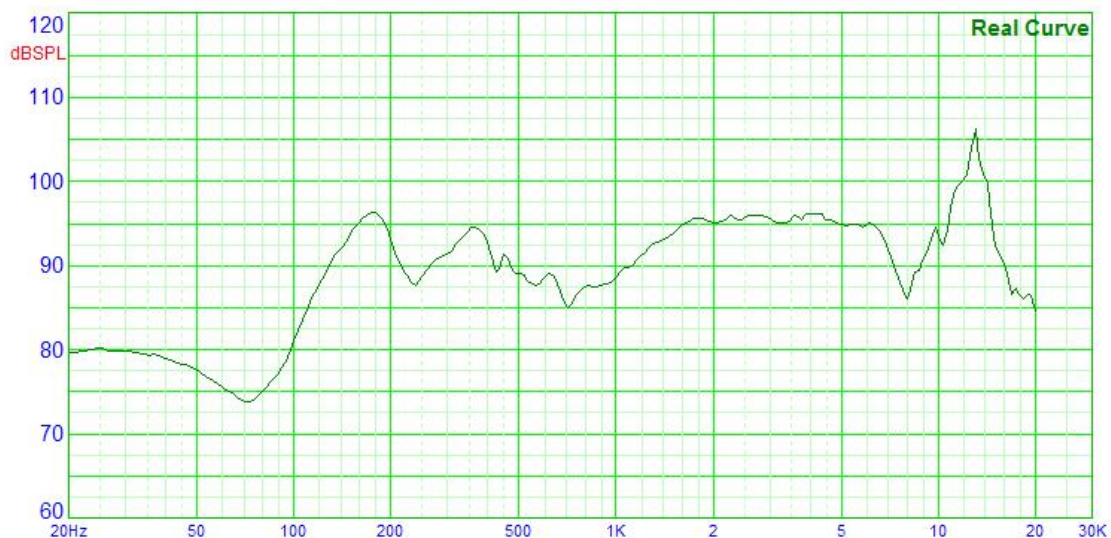
This specification applies speaker , **ST404004-30**

## B. SPECIFICATION

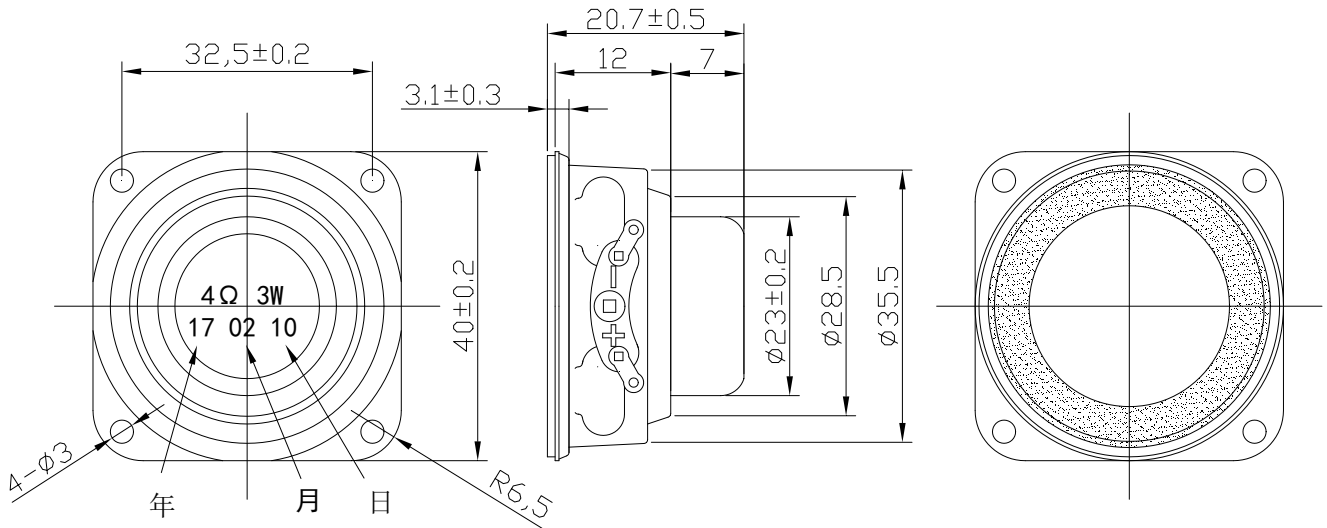
Test condition: TEMP=25±3°C Related humidity=45±5%

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension		mm	L40.0 x W40.0 x H20.7	
2	Power Rating		W	Rated. 3.0/ MAX. 4.0	
3	Impedance	$\Omega$	ohm	4 ±15%	At 1kHz 1.0V
4	Resonance Frequency	Fo	Hz	190 ± 20%	At 1.0V
5	Output S.P.L.		dB	93±3dB(0.1w/0.1m)	At 1.0K,1.2K,1.5K,2.0KHz (Average figures)
6	Frequency Range		Hz	Fo---20K	Output S.P.L. ±10dB
7	Distortion		%	15% Max.	At 3.0W
8	Voice Coil		mm	---	
9	Magnet		mm	---	Nd-Fe-B
10	Flux Density		Gauss	---	Min.
11	Operating temp.		°C	- 20 ~ + 55	
12	Buzzer & Rattle				Not be audible at 3.46V sine wave between Fo ~ 20KHz
13	Weight		g	4	
14	Material			Metal	

## C. TYPICAL FREQUENCY RESPONSE CURVE

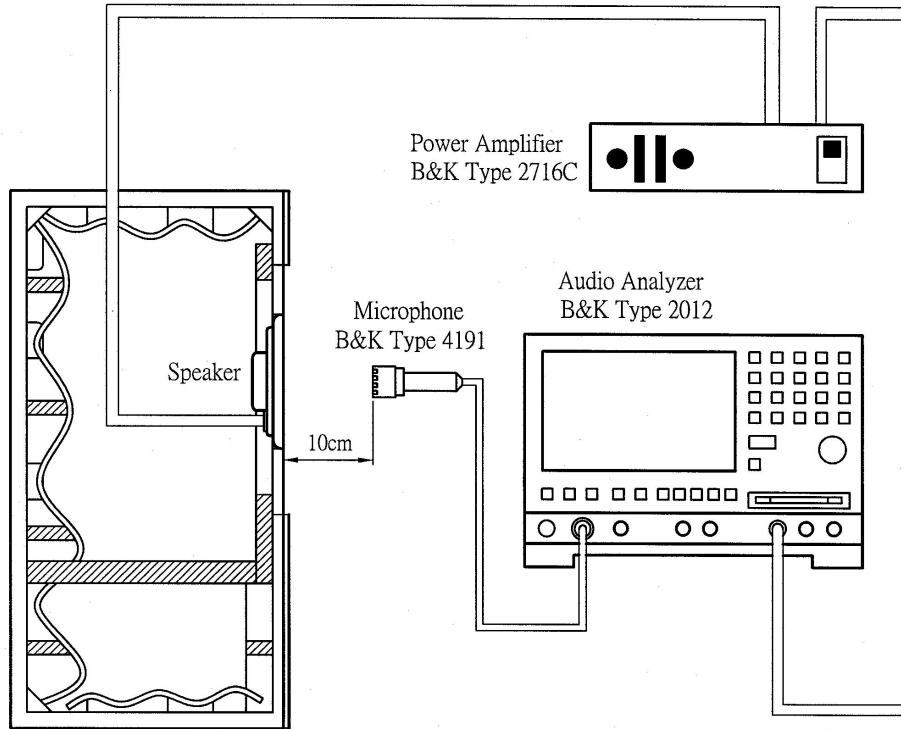


## D. APPEARANCE DRAWING



Tol:  $\pm 0.5$  Unit: mm

## E. MEASUREMENT CIRCUIT



JIS C5531  
940mm x 640mm x 1240mm

## F. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Terminal strength	Applied 1kg load to the terminal for 30 sec	No damage and cutting off.
2	Vibration Test	Speaker shall be measured after being applied vibration of amplitude of 1.52mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	No obstacle to be harmful to normal operation; damages, cracks, rusts and distortions.
3	Drop Test	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm	Should not be audible at At 3.46V sine wave between $F_0 \sim 20\text{KHz}$ .

## G. ENVIRONMENTAL TEST

No.	Item	Test conditions	Evaluation standard
1	High temp. Test	After being placed in a chamber at +55°C for 24 hours	Being placed for 6 hours at +25°C, speaker shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at at 3.46V sine wave between Fo ~ 20KHz. Fo should meet initial one. S.P.L. deviation of unit should be within 3dB
2	Low temp. Test	After being placed in a chamber at -20°C for 24 hours.	
3	Humidity test	After being placed in a chamber at +40°C and 90±5%RH relative humidity for 24 hours.	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall consist of: <div style="text-align: center;"> <p>The diagram shows a temperature profile over a 6-hour cycle. It starts with a 2-hour hold at +55°C, followed by a 0.5-hour ramp down to +25°C, a 1-hour hold at +25°C, another 0.5-hour ramp down to -20°C, and finally a 2-hour hold at -20°C. A dashed line at the bottom indicates the total duration of the cycle is 6 hours.</p> </div>	

## H. RELIABILITY TEST

No.	Item	Test conditions	Evaluation standard
1	Load test	3.0W white noise is applied for 24 hours	No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at at 3.46V sine wave between Fo ~ 20KHz. Fo should meet initial one. S.P.L. deviation of unit should be within 3dB

### TEST CONDITION.

Standard Test Condition : a) Temperature : +5 ~ +35°C b) Humidity : 45-85% c) Pressure : 860-1060mbar  
 Judgement Test Condition a) Temperature : +25±2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

## I. PACKING STANDARD