imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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THIS SPECIFICATION COVERS OUR PRODUCT OF DYNAMIC SPEAKER UNIT FOR MOBILE PHONE USE

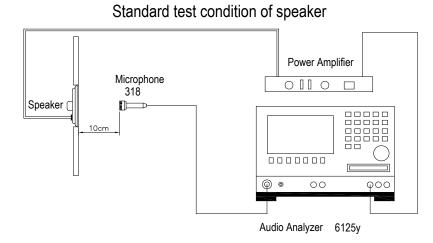
DYNAMIC SPEAKER ELECTROACOUSTIC CHARACTERISTICS

sound pressure level	80±3dB SPL @0.9, 1.2, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
measuring condition	0.1W (Sine wave) 10cm measured with baffler shown in Fig.1
frequency response curve	As shown in Fig.2
response frequency	1350 ± 20% Hz @ 1V. (Without Baffler)
rated noise power	0.3W
 short-term max. power	0.5W must be normal at a white noise (1W, Fo-20KHz) for 1 minute
 distortion	Less than 10% @1KHz , 0.1M , 0.2W frequency range, input level up to 0.2 Vrms
ac impedance	8±15%Ω (@ 2 KHz 1V) without baffler
 operation test	Must be free of audible noise (buzzes and rattles)
 	300 ~ 8KHz frequency range, input level up to 0.2 Vrms

GENERAL SPECIFICATIONS

ating temperature	-20°C ~ +				
	-20°C ~ +	-55°C			
e					
age temperature range	-30°C ~ +	-70°C			
dard test conditions					
temperature	2	17°C ~ 25°C			
relative hum	nidity	45% ~ 80%(RH)			
ension	ø 10x2.4r	mm			
2			,	· · · · · · · · · · · · · · · · · · ·	

MEASURING METHOD (SPEAKER MODE) (Figure 1)

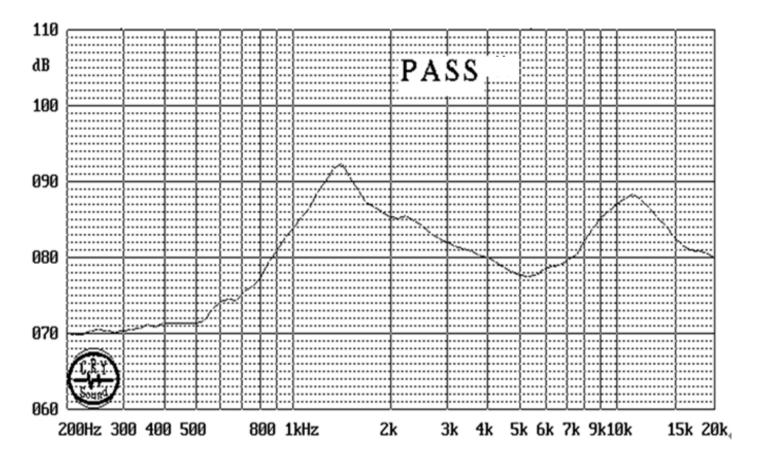


TEST CONDITION			
STANDARD			
temperature	15 ~ 35∘C		
relative humdity	45% ~ 85%		
atmospheric pressure	860mbar to 1060mbar.		
STANDARD TEST FIXTU	RE		
input power	0.1W (0.89V)		
zero level	-dB		
mode	TSR		
potentiometer range	50dB		
sweep time	0.5sec		



MODEL: SP-1003 PRODUCT: Dynamic Speaker EDITION: A/2016

TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





RELIABILITY TESTS

The sound pressure as specified shall neither deviate more than ± 3 dB from the initial value, nor have any significant damage after any of following testing.

HIGH TEMPERATURE TEST	
 high temperature	+55±2°C
duration	96 hours
LOW TEMPERATURE TEST	
 low temperature	-20±2°C
duration	96 hours
 HEAT SHOCK TEST	
high temperature	+55±2°C
low temperature	-20±2°C
duration	1 hour
 changeover time	< 30 seconds
 cycle	100
HUMIDITY TEST	
temperature	+40±2°C
 relative humidity	90~95%
 duration	96 hours
 TEMPERATURE CYCLE TES	т
 temperature	-20°C +55°C
 duration	45 minutes 45 minutes
 temperature gradient	1~3°C/min.
 cycle	25
 DROP TEST	
mounted with dummy set mass	100 g
height	1.5 m
cycle	6 (1 each plain) onto the concrete board
LOAD TEST	
 noise signal	White noise (EIA filter)
 input power	0.3W
 duration	96 hours

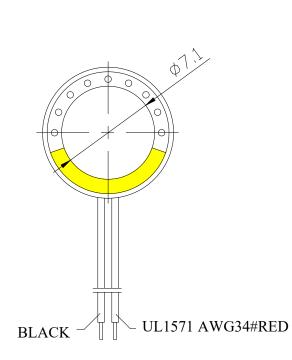


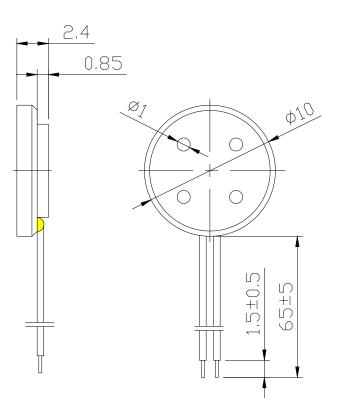
MODEL: SP-1003 PRODUCT: Dynamic Speaker EDITION: A/2016

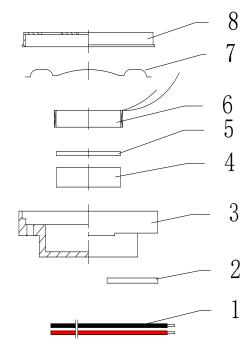
Soberton Inc.

DIMENSIONS

Tolerance: ±0.5 (unit: mm)







no	item	material	quantity
1	UL1571 AWG34#	Red/Black	2
2	РСВ	FR-4	1
3	Frame	SPCC	1
4	Magnet	ND Fe B-N38	1
5	Plate	SPCC	1
6	Voice Coil	Copper	1
7	Membrane	PET	1
8	Сар	SUS 304	1



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PACKING

