

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm

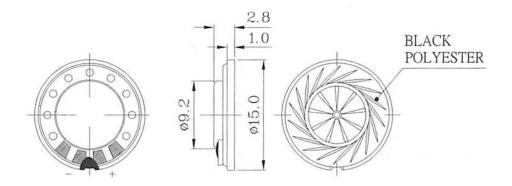
Page No: 1 of 5

Specifications

Dimensions	ø15.0 x 2.8 mm	
Impedance	8 Ohm ± 15%	at 1.5 KHz 1 V
Resonant frequency	900 Hz ± 20%	at 1 V
Sound pressure level	92 dB/w ± 3 dB	0.3 w 10 cm at 1.0K, 1.2K, 1.5K, 2.0K Hz
	$88 \text{ dB/w} \pm 3 \text{ dB}$	0.1 w 0.1m at 1.0K, 1.2K, 1.5K, 2.0K Hz
Response	Fo Hz ~ 20 KHz max.	
Distortion	10% max.	at 1.5 KHz 0.3W
Input power	Nominal 0.3 W	Handling capacity 0.5 W
Operation	must be normal at program source 0.3 W	
Buzz, rattle, etc.	must be normal at sine wave 1.55 V	
Operating temp.	-20 ~ +85°C	
Weight	1.2 g	
Material	Metal	
RoHS	yes	

Mechanical Drawing

Tolerance: ±0.2



The mylar will not exceed the metal frame when input is at the maximum power of 0.5W.



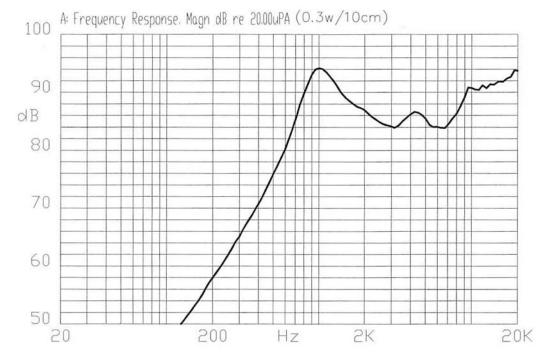


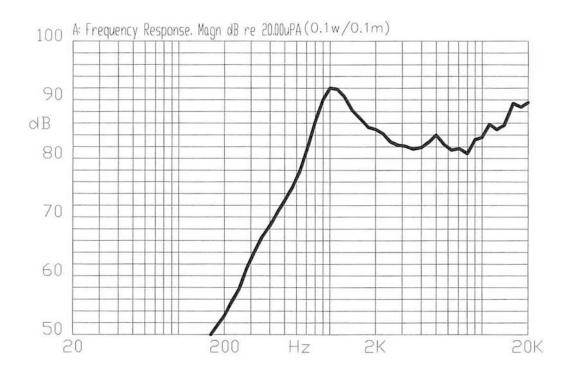
Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm Page No: 2 of 5

Frequency Response Curve







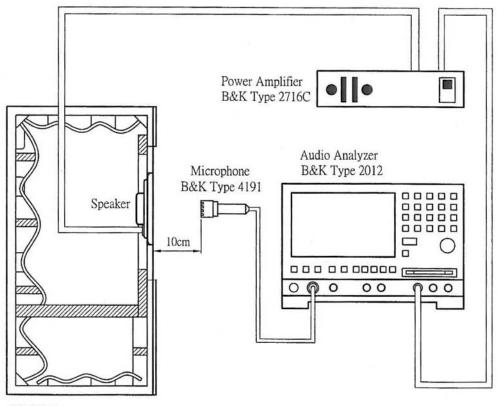
Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm

Page No: 3 of 5

Measurement Circuit



JIS C5531 940mm x 640mm x 1240mm



Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm Page No: 4 of 5

Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Stripped wires of lead wires are immersed in	90% min. stripped wires will be
(Connector Excepted)	rosin for 5 seconds and then immersed in	wet with solder.
	solder bath of $+270 \pm 5^{\circ}$ C for 3 ± 0.5 seconds.	(Except the edge of the terminal.)
Lead Wire Pull Strength	The pull force should be applied to double lead	
	wire:	No damage or cutting off.
	Horizontal 3.0N (0.306kg) for 30 seconds	
	Vertical 2.0N (0.204kg) for 30 seconds	
Vibration	The speaker should be measured after applying	
	a vibration amplitude of 1.5 mm with 10 to	No obstacle will be harmful to
	55 Hz band of vibration frequency to each of	normal operation; damage,
	the 3 perpendicular directions for 2 hours.	cracks, rust, and distortions.
Drop Test	The part will be dropped, contained inside a	Should not be audible at 1.55 V
	normal box, from a height of 75 cm onto a 40	sine wave between Fo ~ 20 KHz.
	mm thick wooden board 10 times.	

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	After being placed in a chamber at 85°C for 8 hours.	
Low temp. test	After being placed in a chamber at -20°C for 96 hours.	
Humidity test	After being placed in a chamber at +60°C and 90% relative humidity for 240 hours.	The speaker will be measured
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: +85°C -20°C 2hrs hr 6hrs	after being placed at +25°C for 6 hours. No obstacle will be harm ful to normal operation; damage cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20 KHz The SPL should be within ±3dB when compared to the initial measurements.



Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm Page No: 5 of 5

Reliability Test

Item	Test Condition	Evaluation Standard
Load Test	0.3 W white noise, applied for 24 hours, at room temperature.	The speaker will be measured after being placed at +25°C for 1 hours. No obstacle will be harm ful to normal operation; damage, cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20 KHz. The SPL should be within ±3dB when compared to the initial measurements.
		Should not be audible at 1.55 sine wave between Fo ~ 20 K The SPL should be within ±30

Test Conditions

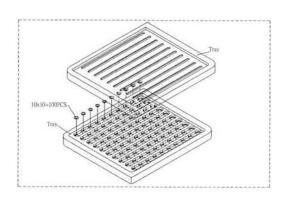
Standard Test Condition
Judgement Test Condition

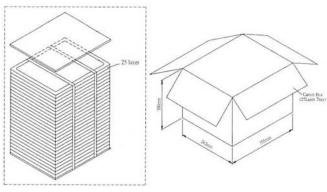
- a) Tempurature: +5 ~ +35°C
- a) Tempurature: +25 ±2°C
- b) Humidity: 45 85% c) Pre

b) Humidity: 60 - 70%

c) Pressure: 860-1060 mbar c) Pressure: 860-1060 mbar

Packaging





Tray	350mmx235mmx20mm	1x100PCS=100PCS
Carton Box	355mmx242mmx300mm	100PCSx25=2500PCS