

Description: micro dynamic speaker

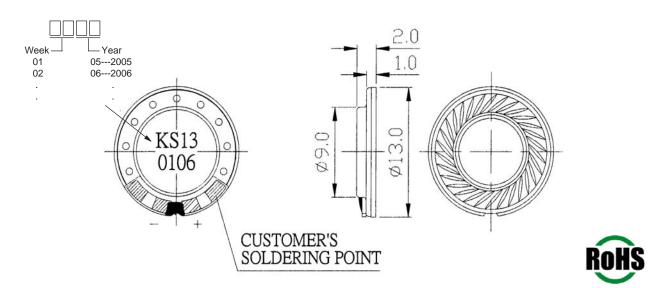
Date: 10/18/2006 Unit: mm Page No: 1 of 6

Specifications

Dimensions	ø13.0 x 2.0 mm			
Impedance	8 Ohm ± 15% at 1.5 KHz 1 V			
Resonant frequency	1050 Hz ± 20% at 1 V			
Sound pressure level	86 dB/w ± 3 dB 0.2 w 10 cm at 1.5K, 2.0K, 2.5K, 3.0K Hz			
	75 dB/w ± 3 dB 1 w 1m at 1.5K, 2.0K, 2.5K, 3.0K Hz			
Response	Fo Hz ~ 20 KHz max.			
Distortion	10% max. at 1.5 KHz 0.2W			
Input power	Nominal 0.2 W Handling capacity 0.4 W			
Operation	must be normal at program source 0.2 W			
Buzz, rattle, etc.	must be normal at sine wave 1.26 V			
Magnet	ø7.0 x 0.7 (Nd-Fe-B)			
Operating temp.	-20 ~ +55°C			
Weight	0.7 g			
Material	Metal			
RoHS	yes			

Mechanical Drawing

Tolerance: ±0.3



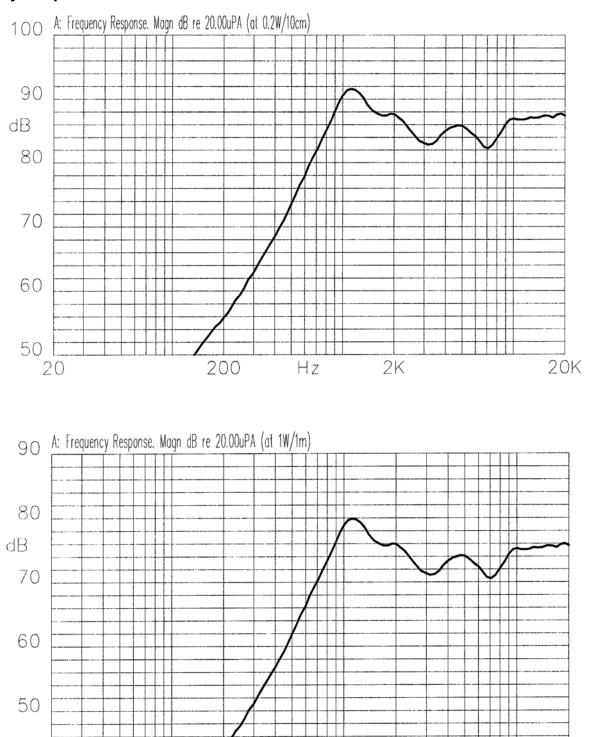


Date: 10/18/2006 Unit: mm Page No: 2 of 6

Description: micro dynamic speaker

Frequency Response Curve

40



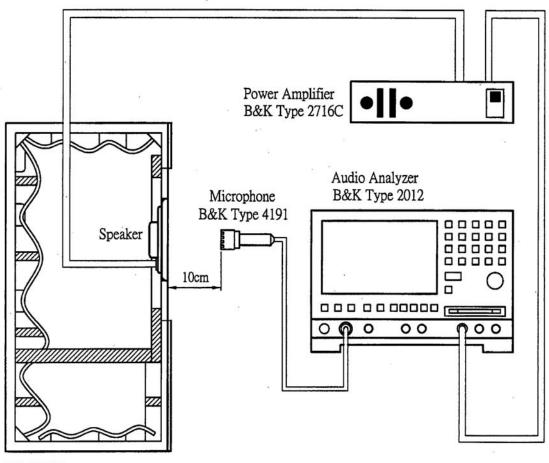
20 200 Hz 2K 20K Phone: 800.275.4899 Fax: 503.612.2381 www.cui.com 20050 SW 112th Ave. Tualatin, OR 97062



Description: micro dynamic speaker

Date: 10/18/2006 Unit: mm Page No: 3 of 6

Measurement Circuit



JIS C5531 940mm x 640mm x 1240mm



Description: micro dynamic speaker

Date: 10/18/2006 Unit: mm Page No: 4 of 6

Mechanical Characteristics

Item	Test Condition	Evaluation Standard	
PCB 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		
Vibration	The speaker should be measured after applying		
55 H	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 1.26 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 55°C for 96 hours.	
Low temp. test	After being placed in a chamber at -20°C for 96 hours.	The speaker will be measured
Humidity test	After being placed in a chamber at +40°C and 90% relative humidity for 240 hours.	
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: +55°C +55°C 0.5 0.5 1hr hr 2hrs hr	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 1.26 V sine wave between Fo ~ 20 KHz. The SPL should be within ±3dB compared to the initial measurements.



Description: micro dynamic speaker

Date: 10/18/2006 Unit: mm Page No: 5 of 6

Reliability Test

Item	Test Condition		Evaluation Standard	
Load Test	0.2 W white noise, applied for 96 hours, at room temperature.		The speaker will be measured 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 1.26 V sine wave between Fo ~ 20 KHz. The SPL should be within ±3dB compared to the initial measurements.	
Test Conditions				
Standard Test Condition Judgement Test Condition	a) Tempurature: +5 ~ +35°C a) Tempurature: +25 ±2°C	b) Humidity: 45 - 85% b) Humidity: 60 - 70%	,	

Recommended Temperature Profile for Hand Soldering

Hand Soldering					
370±10℃	/ 3±1 Sec				



Date: 10/18/2006 Unit: mm Page No: 6 of 6

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Packaging

