# SPECIFICATION FOR APPROVAL

Description :		Micro Dynamic Speaker
Customer's Model No.	:	
Specification No.	:	PKD-7269
Number Of The Edition	:	1.2

CUSTOMER'S APPROVED SIGNATURE			

Approved by	Checked by	Issued by
		Fei 1/11/06'

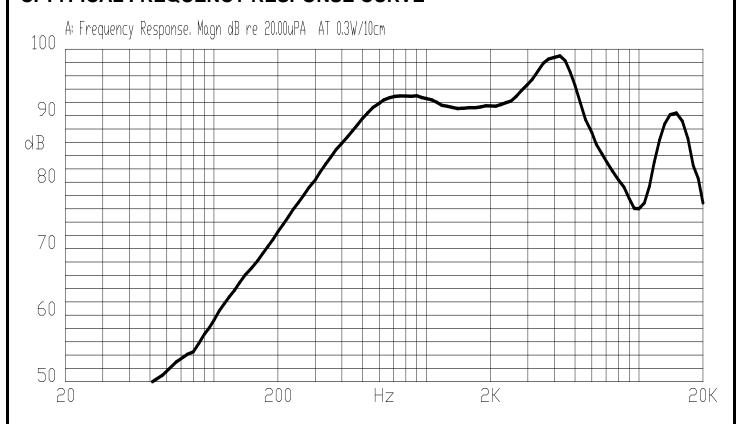
## A. SCOPE

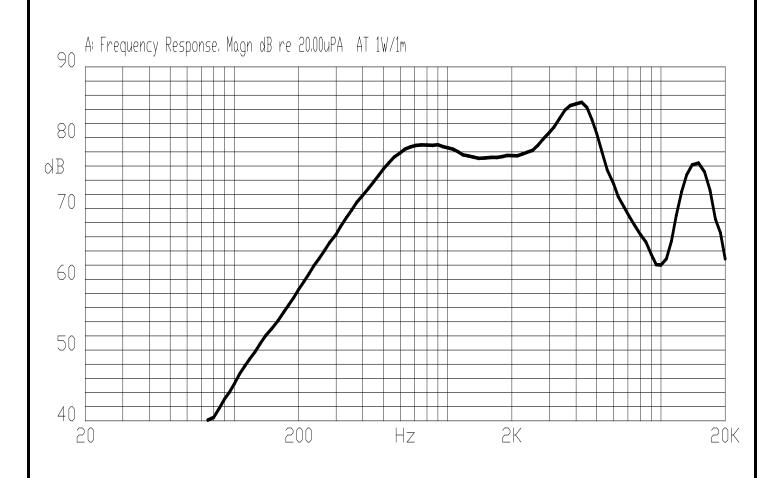
This specification applies speaker, KDMG20008

## **B. SPECIFICATION**

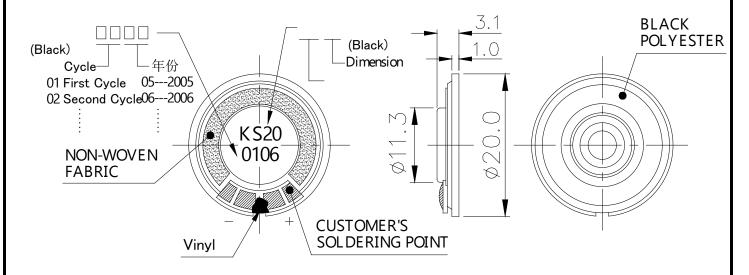
No.	Item	Symbol	Unit	Specification	Condition
1	Dimension		mm	$\varphi$ 20.0 x 3.1	
2	Power Rating		W	Rated. 0.3 / MAX. 0.5	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
3	Impedance	Ω	ohm	8 ± 15%	At 1.0kHz 1.0V
4	Resonance Frequency	Fo	Hz	560 ± 20%	At 1.0V
5	Output S.P.L.		dB	92 ± 3dB(0.3w/10cm) 78 ± 3dB(1w/1m)	At 1.0k,1.2k,1.5k,2.0kHz (Average figures)
6	6 Frequency Rang		Hz	Fo7K	Output S.P.L. ±10dB
7	Distortion		%	5% Max.	At 1.0kHz , 0.3W
8	Voice Coil		mm	$\varphi$ 8.7x $\varphi$ 0.055 x H1.3 x 8 Ω	
9	Magnet		mm	φ 8.0 x 1.0	Nd-Fe-B
10	Flux Density		Gauss	4800 ± 10%	Min.
11	Operating temp.		$^{\circ}\!\mathbb{C}$	- 20 ~ <b>+</b> 55	
12	Buzze & Rattle				Not be audible at 1.54V sine wave between Fo ~ 7KHz
13	Weight		g	2.3	
14	Material			Metal	
15	Environmental Protection Regulation			RoHS	

#### C. TYPICAL FREQUENCY RESPONSE CURVE



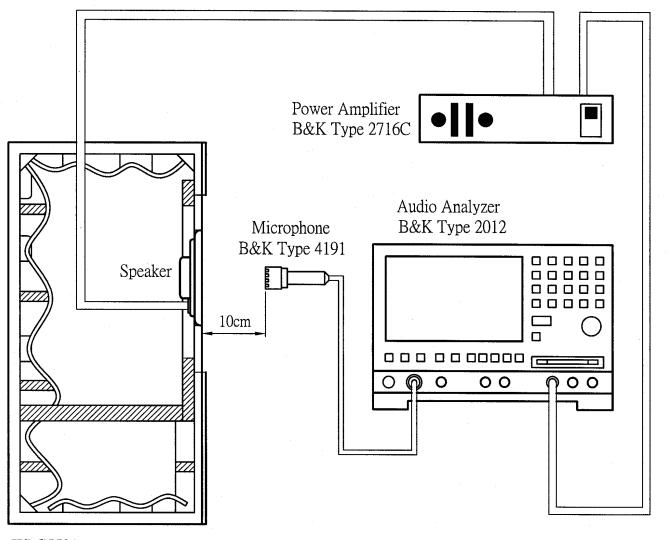


#### D. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

#### E. MEASUREMENT CIRCUIT



JIS C5531 940mm x 640mm x 1240mm

### F. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	<b>Evaluation standard</b>
1		The pull force shall be applied to double lead wire: Horizontal 3.0N(0.306kg) for 30 seconds.	No damage and cutting off
2		frequency to each of 3 perpendicular directions for 2 hours.	No obstacle to be harmful to normal operation; damages, cracks, rusts and
3	Drop Test		distortions. Should not be audible at 1.54V sine wave between Fo ~ 7KHz

### **G. ENVIRONMENTAL TEST**

No.	Item	Test conditions	Evaluation standard
1	High temp. Test	After being placed in a chamber at +55°C for 96 hours	
2	Low temp. Test	After being placed in a chamber at -20℃ for 96 hours.	Being placed for 6 hours at +25℃, speaker shall be
3	Humidity test	After being placed in a chamber at +40° and 90±5% RH relative humidity for 96 hours.	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  +55°C  +25°C  -20°C  0.5  hr  hr  hr  2hrs  6hrs	measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 1.54V sine wave between Fo ~ 7KHz. Fo should meet initial one. S.P.L. deviation of unit should be within ±3dB

## H. Recommended Temperature Profile For Hand Soldering

Hand Soldering	
370±10°C / 3±1 Sec	

### I. RELIABILITY TEST

No.	Item	Test conditions	Evaluation standard
1	Load test	0.3W white noise is applied for 24 hours, at room temp.	Being placed for 1 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 1.54V sine wave between Fo ~ 7KHz. Fo should meet initial one. S.P.L. deviation of unit should be within ±3dB.

#### **TEST CONDITION.**

