

# HORN 深圳市豪恩实业有限公司

SHENZHEN HORN INDUSTRIAL CO., LTD.

SPEC. SHEET NO: 00011234

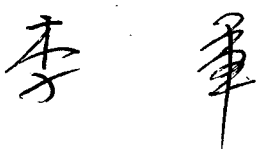
Address:  
 BLOCK 1, DEHUINA INDUSTRIAL DISTRICT,  
 MINGZHI RD LONGHUA, SHENZHEN,  
 GUANGDONG, CHINA 518131

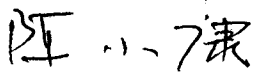
TEL: (86) 755-8192552 8190943  
 FAX: (86) 755-8192557  
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 HOME PAGE: www.globalsources.com/hormmic.co


**CUSTOMER: Digi-Key Corporation**

## APPROVE SHEET

PRODUCT NAME	TYPE	DIMENSION	
Electret Condenser Microphone	EM6035-38	Ø6.0x3.5(mm)	

APPROVED :  DATE: 2000.11.25

CHECKED BY:  DATE: 2000.11.25

ISSUED BY: 陳為波 DATE: 

APPROVED BY:

DATE

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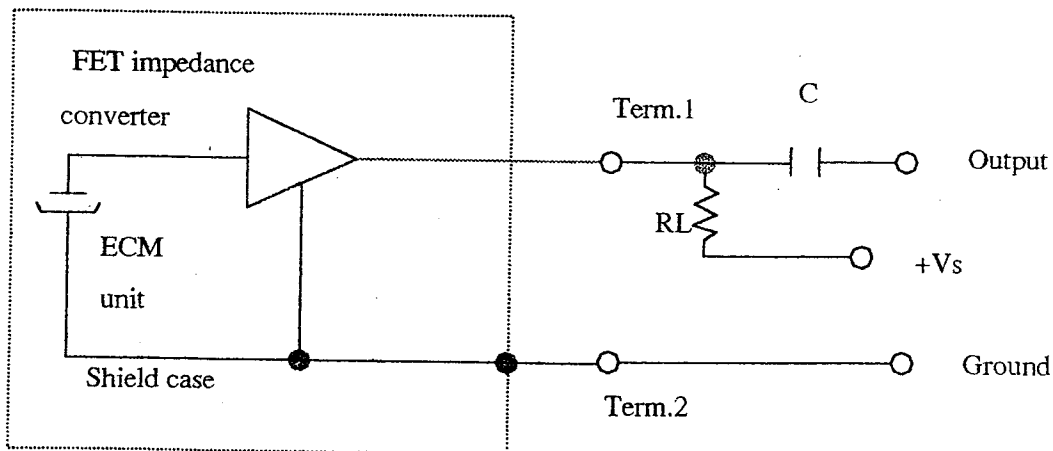
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## SPECIFICATION

Item	Symbol	Test conditions	Min	Standard	Max	Unit
Sensitivity	S	f=1KHz. Pin=1ubar	-41	-38	-35	dB <small>0dB=1V/Pa</small>
Directivity	Omnidirectional					
Impedance	Zout				2.2	K Ω
Current consumption	I	f=1KHz. Pin=1ubar			500	uA
Sensitivity reduction	ΔS	f=1KHz. Pin=1ubar. Vs=1.5→1V			-3	dB
S/N ratio	S/N(A)	f=1KHz. Pin=1ubar. A=curve	40			dB

### Measurement Circuit (Test Condition Vs=4.5V RL=2.2KΩ

Ta=20°C R.H=65%)

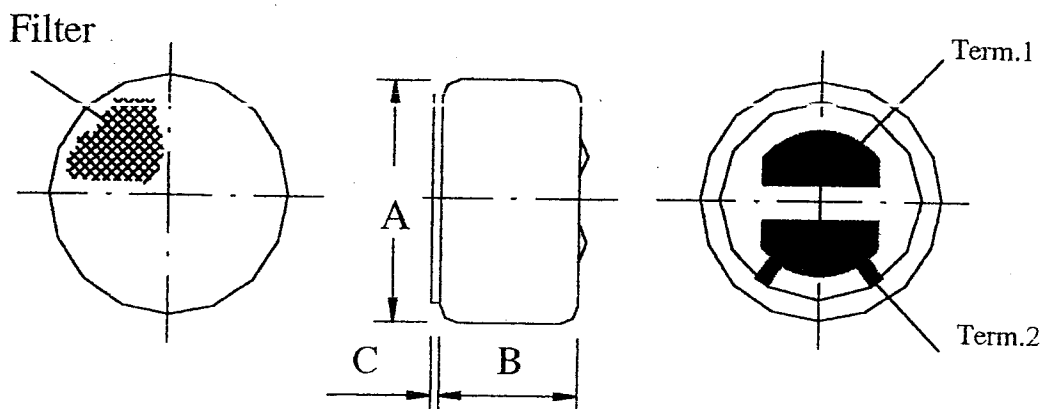


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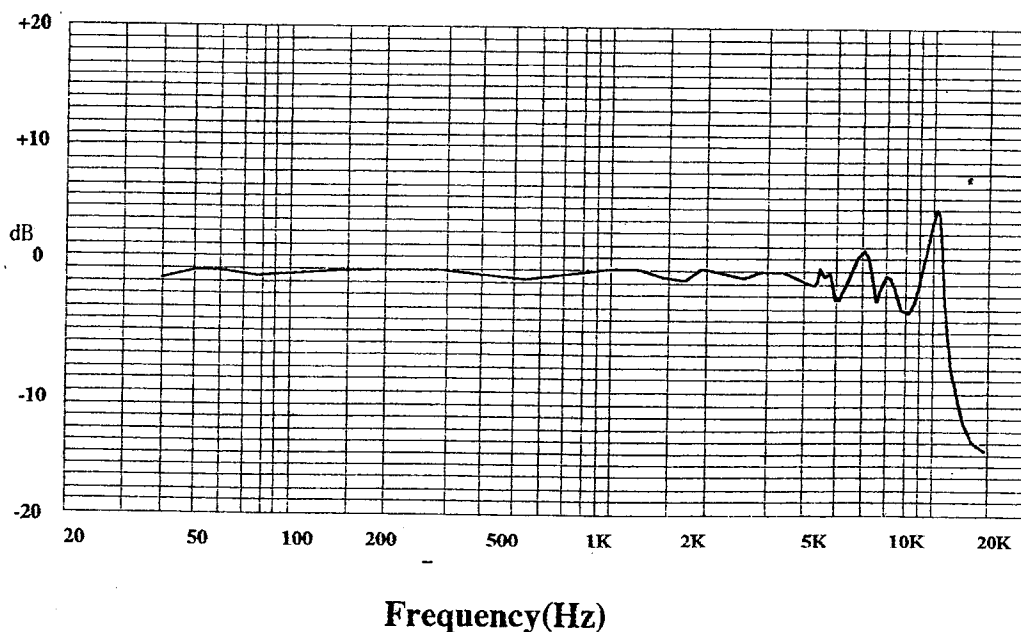
## Dimensional Drawing

unit: mm



PART	MIN	TYPE	MAX	REMARK
A	Ø5.8	Ø6.0	Ø6.2	
B	3.7	3.5	3.3	
C	-	-	0.2	

## Typical Frequency Response Curve



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## Ambient condition

### (1) Operating condition

Ambient temperature:  $-10^{\circ}\text{C} \sim +45^{\circ}\text{C}$

Relative humidity:  $\leq 85\%$

### (2) Storage condition

Ambient temperature:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Relative humidity: 45%

## Reliability Test

### 1) Vibration Test

To be no interference in operation after vibration of full amplitude 2mm for 30 minutes at three axis, the sensitivity to be within  $\pm 3\text{dB}$  from initial sensitivity.

### 2) Drop test

To be no interference in operation after dropped to concrete floor each time from 1 meter height of three directions in state of packing, the sensitivity to be within  $\pm 3\text{dB}$  from initial sensitivity.

### 3) High Temperature Storage:

To be no interference in operation after high temperature test  $70^{\circ}\text{C} \pm 3^{\circ}\text{C}$  for 48 hours. The sensitivity to be within  $\pm 3\text{dB}$  from initial sensitivity.

### 4) Isotherm & Iso-humidity Storage

To be no interference in operation after storage test at temperature  $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$  and relative humidity ( $93\% \pm 2\sim 3\%$ ) for 48 hours, the sensitivity to be within  $\pm 3\text{dB}$  from initial sensitivity, the test is performed at temperature  $20^{\circ}\text{C}$  after operation for 2 hours.

### 5) Low Temperature Storage

To be no interference in operation after test at temperature  $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$  for 48 hours, the sensitivity to be within  $\pm 3\text{dB}$  from initial sensitivity

### 6) Temperature Cycle Test

After exposure at  $-55 \pm 2^{\circ}\text{C}$  for 1 hour, at  $20 \pm 2^{\circ}\text{C}$  for 1 hour. at  $-10 \pm 2^{\circ}\text{C}$  for 1 hour, at  $20 \pm 2^{\circ}\text{C}$  for 1 hour, with 5 cycles. Change of sensitivity within  $\pm 3\text{dB}$  from initial measuring should be done after 2 hours exposed to  $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ .

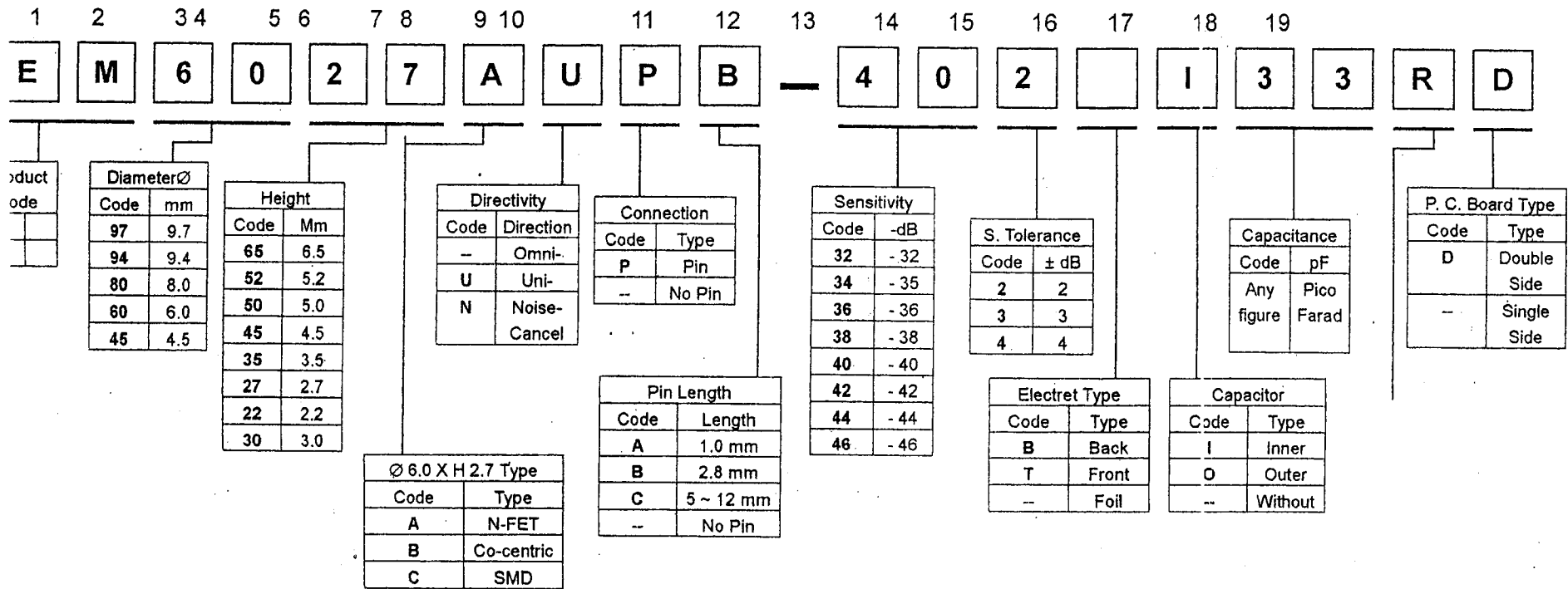
### 7) Collision Test

After collided with the acceleration  $100 \pm 10\text{m/s}$ , at the vertical & horizontal directions for  $1000 \pm 10$  times. at the state of packing. Change of sensitivity within  $\pm 3\text{dB}$  from initial.

# HORN Shenzhen Horn Industrial Co., Ltd.

## Explanation of Part Number

### Explanation of Part Number



Resistor	
Code	Type
R	With
-	Without

# SHENZHEN HORN INDUSTRIAL CO.,LTD.

## PACKING LIST OF CONDENSER MICROPHONES

DEL NO	DIMENSION (mm)	DIRECTIVITY	INNER PACKING (PCS)	MIDDLE PACKING (PCS)	CARTOON (PCS)	GROSS WEIGHT (Kg)	NET WEIGHT (Kg)
19765	9.7*6.5	Omni directional	100	1,000	10,000	10	9.5
19765P	9.7*6.5	Omni directional	N/G	400	4,000	5	4.5
19752U	9.7*5.2	Unidirectional	100	1,000	10,000	9.5	9
19752N	9.7*5.2	Noise Cancelling	100	1,000	10,000	9.5	9
19745	9.7*4.5	Omni directional	100	1,000	10,000	9	8.5
19745P	9.7*4.5	Omni directional	N/G	400	4,000	3.5	3
19465	9.4*6.5	Omni directional	100	1,000	10,000	9.5	9
19465P	9.4*6.5	Omni directional	N/G	400	4,000	4.5	4
18050U	8.0*5.0	Unidirectional	50	1,000	15,000	10	9.5
16050	6.0*5.0	Omni directional	100	2,000	30,000	10.5	10
16050P	6.0*5.0	Omni directional	100	1,000	10,000	3.5	3
16050U	6.0*5.0	Unidirectional	100	2,000	30,000	10.5	10
16050N	6.0*5.0	Noise Cancelling	100	2,000	30,000	10.5	10
16035	6.0*3.5	Omni directional	100	2,000	30,000	9.5	9
16027	6.0*2.7	Omni directional	100	2,000	30,000	7.5	7
16027PA	6.0*2.7	Omni directional	100	2,000	30,000	7.5	7
14530	4.5*3.0	Omni directional	100	2,000	30,000	6.5	6