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Shenzhen Horn Electroacoustic Technology Co.,Ltd

**SPEC.SHEET NO: 00011221** 

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Fax: (86)755-28109417 E-mail: rd@horn.com.cn Website:www.horn.com.cn

**CUSTOMER: Digi-Key Corporation** 

# **APPROVAL SHEET**

PRODUCT NAME	PART NUMBER	DIMENSION	REMARK
Electret Condenser Microphone	EM9765P-42	φ 9.7×6.5(mm)	Pin Type

APPROVED BY	CHECKED BY	ISSUED BY

APPROVED BY		
	DATE:	



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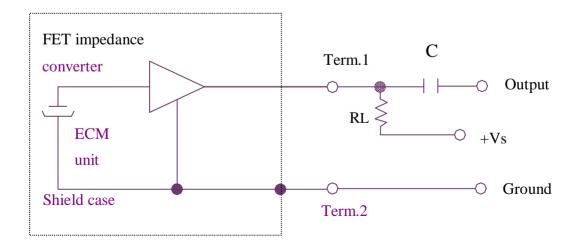
Fax: (86)755-28109417 E-mail: rd@horn.com.cn Website:www.horn.com.cn

# **SPECIFICATION**

Item	Symbol	Test conditions	Min	Standard	Max	Unit
Sensitivity	S	f=1KHz. Pin=1Pa	-44	-42	-40	dB 0dB=1V/Pa
Directivity	Omnidirectional					
Impedance	Zout				2.2	ΚΩ
Input sound Pressure level	S.P.L				100	dB
Operation voltage	Vs	-	1.0	4.5	10	V
Current consumption	I	f=1KHz. Pin=1Pa			500	uA
Sensitivity reduction	$\triangle$ S	f=1KHz. Pin=1Pa Vs=4.5→1.5V			-3	dB
S/N ratio	S/N(A)	f=1KHz. Pin=1Pa A=curve	60			dB

### **Measurement Circuit** (Test Condition Vs=4.5V RL= $2.2K \Omega$

Ta=20℃ R.H=65%)





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unit: mm

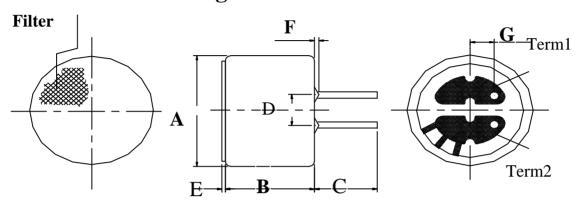
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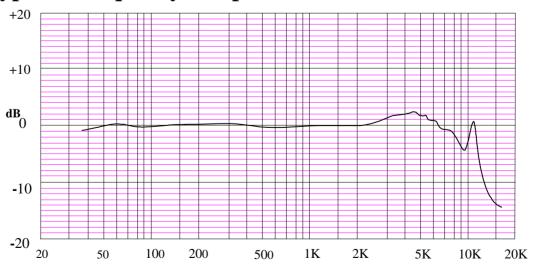
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### **Dimensional Drawing**



PART	MIN	STANDARD	MAX	REMARK
A	Ф 9.5	ф 9.7	Φ9.9	
В	6.3	6.5	6.7	
С	9.5	11	12.5	
D	-	2.54	1	
Е	-	-	0.2	
F	-	-	0.8	
G	1.8	2.0	2.2	

### **Typical Frequency Response Curve**



Frequency(Hz)



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#### **Ambient condition**

(1) Operating condition

(2) Storage condition  $0^{\circ}\text{C} \sim +45^{\circ}\text{C}$  Ambient temperature:

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

≤85%

-20°C∼+60°C

Relative humidity: 45%

### Reliability Test

#### 1) Vibration Test

Relative humidity:

To be no interference in operation after vibration of full amplitude 2mm for 30 minutes at three axis, the sensitivity to be within  $\pm -3$ 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  $\pm 4$ -3dB from initial sensitivity.

#### 3) High Temperature Test

To be no interference in operation after high temperature test  $70+/-3^{\circ}$ C for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity.

#### 4) Isotherm & Iso-humidity Test

To be no interference in operation after storage test at temperature  $40+/-2^{\circ}\mathbb{C}$  and relative humidity  $(93\%\pm2\sim3\%)$  for 48 hours. the sensitivity to be within +/-3dB from initial sensitivity. the test is performed at temperature  $20^{\circ}\mathbb{C}$  after operation for 2 hours.

#### 5) Low Temperature Test

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

#### 6) Temperature Cycle Test

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

#### 7) Collision Test

After collided with the acceleration 100+/-10m/s, at the vertical & horizontal directions for 1000+/-10 times, at the state of packing. Change of sensitivity within +/-3dB from initial.