

**DESCRIPTION:** electret condenser microphone

### **SPECIFICATIONS**

omnidirectional	
-44 ±2 dB	f = 1KHz, 1Pa 0dB = 1V/Pa
-3 dB	f = 1KHz, 1Pa Vs = 3.0 ~ 2.0 V dc
3 V dc (standard), 10 V d	lc (max.)
2.2 ΚΩ	f = 1KHz, 1Pa
20 ~ 20,000 Hz	
0.5 mA max.	Vs = 3.0 V dc RL = 2.2KΩ
60 dBA	f = 1KHz, 1Pa A-weighted
-20 ~ +70° C	
-20 ~ +70° C	
ø9.7 x 4.5 mm	
0.80 g max.	
AI	
pin type (hand soldering	only)
yes	
	-44 ±2 dB -3 dB 3 V dc (standard), 10 V d 2.2 KΩ 20 ~ 20,000 Hz 0.5 mA max. 60 dBA -20 ~ +70° C -20 ~ +70° C ø9.7 x 4.5 mm 0.80 g max. Al pin type (hand soldering

note:

We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20dB compared to the "ubar" indication. Example: -60dB (0dB = 1V/ubar) = -40dB (1V/Pa)

# **APPEARANCE DRAWING**





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# **MEASUREMENT CIRCUIT**



# FREQUENCY RESPONSE CURVE





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### **MECHANICAL CHARACTERISTICS**

item	test condition	evaluation standard	
soldering heat resistance	Lead terminals are immersed in solder bath of	No interference in operation.	
-	270 $\pm$ 5°C for 2 $\pm$ 0.5 seconds.		
PCB wire pull strength	The pull force will be applied to double lead		
	wire:	No damage or cutting off.	
	Horizontal 4.9N (0.5kg) for 30 seconds		
vibration	The part will be measured after applying a		
	vibration amplitude of 1.5 mm with 10 to 55 Hz		
	band of vibration frequency to each of the	After any tests, the sensitivity	
	3 perpendicular directions for 2 hours.	should be within ±3dB compared	
drop test	The part will be dropped from a height of	to the initial measurement.	
	1 m onto a 20 mm thick wooden board 3 times		
	in 3 axes (X, Y, Z) for a total of 9 drops.		

### **ENVIRONMENT TEST**

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +70°C for	
	72 hours.	
low temp. test	After being placed in a chamber at -20°C for	_
	72 hours.	
humidity test	After being placed in a chamber at +40°C and	
	90±5% relative humidity for 240 hours.	
temp. cycle test	The part shall be subjected to 10 cycles. One	
	cycle will consist of:	The part will be measured after
	+70°C +25°C +25°C +25°C +25°C +25°C 1hr 0.5hr 1hr 0.5hr 1hr 0.5hr 1hr 0.5hr 1hr	being placed at +25°C for 6 hours. After any tests, the sensitivity should be within ±3dB compared to the initial measurement.

# **TEST CONDITIONS**

standard test condition judgement test condition

a) temperature: +5 ~ +35°C a) temperature: +25 ±2°C b) humidity: 45 - 85%b) humidity: 60 - 70%

c) pressure: 860-1060 mbar c) pressure: 860-1060 mbar



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# PACKAGING



Inner Box	100mmx100mmx15mm	100PCSx1=100PCS
Out Box	435mmx120mmx280mm	100PCSx50=5,000PCS
Carton Box	455mmx245mmx300mm	5,000PCSx2=10,000PCS