

# 捷多邦,专业PCB打样工厂,24小时加急出货

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## PART NUMBER: CMA-6542PF

**DESCRIPTION:** electret condenser microphone

## **SPECIFICATIONS**

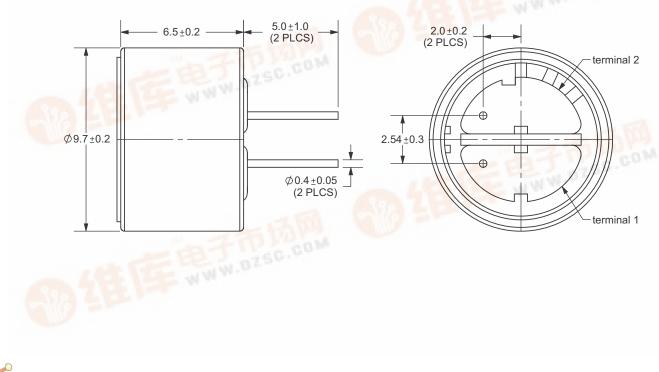
directivity	omnidirectional	W.D.L.S
sensitivity (S)	-42 ±3 db	f = 1KHz, 1Pa 0dB = 1V/Pa
sensitivity reduction ( $\Delta$ S-Vs)	-3 dB	f = 1KHz, 1Pa Vs = 4.5 ~ 1.5 V dc
operating voltage	4.5 V dc (standard), 10	0 <mark>V dc (m</mark> ax.)
output impedance (Zout)	2.2 ΚΩ	f = 1KHz, 1Pa
operating frequency (f)	20 ~ 20,000 Hz	
current consumption (IDSS)	0.5 mA max.	Vs = 4.5 V dc RL = 2.2KΩ
signal to noise ratio (S/N)	60 dBA	f = 1KHz, 1Pa A-weighted
operating temperature	-20 ~ +70° C	- 57
storage temperature	-20 ~ +70° C	一方切四
dimensions	ø9.7 x 6.5 mm	D T T COM
weight	0.70 g max.	DZSUM DZSUM
material	AI	A CALLER WWW
terminal	pin type (hand solderir	ng only)
RoHS	yes	

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

tolerances not shown: ±0.3mm



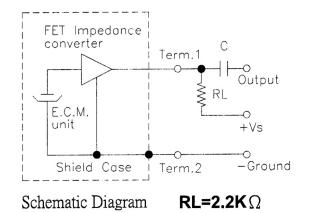


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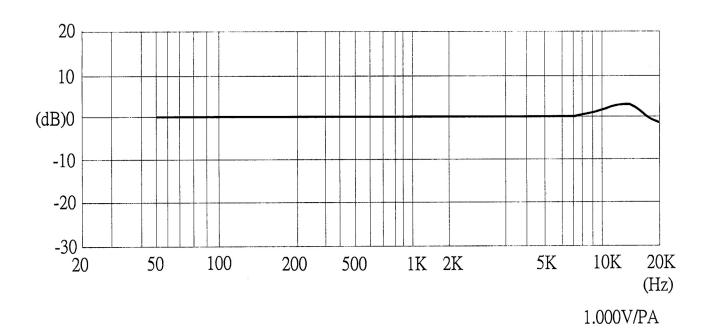
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#### **MEASUREMENT CIRCUIT**



### 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 $260 \pm 5^{\circ}$ C for 2 $\pm 0.5$ seconds.	No interference in operation.	
terminal mechanical strength	Apply to the terminal 0.5kg for 1 minute	No damage or cutting off.	
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 3 perpendicular directions for 2 hours.	After any tests, the sensitivity should be within ±3dB compared	
drop test	The part will be dropped from a height of 1 m onto a 20 mm thick wooden board 3 times in 3 axes (X, Y, Z) for a total of 9 drops.	to the initial measurement.	

#### **ENVIRONMENT TEST**

item	test condition	evaluation standard
high temp. test	After being placed in a chamber at +70°C for	The part will be measured after
	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:	
	+70℃	being placed at +25°C for 6 hours. After any tests, the
	$+25^{\circ}$ C $+25^{\circ}$ C $+25^{\circ}$ C $-20^{\circ}$ C	sensitivity should be within ±3dB compared to the initial measurement.
	•	
	5.5 hrs	

#### **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%

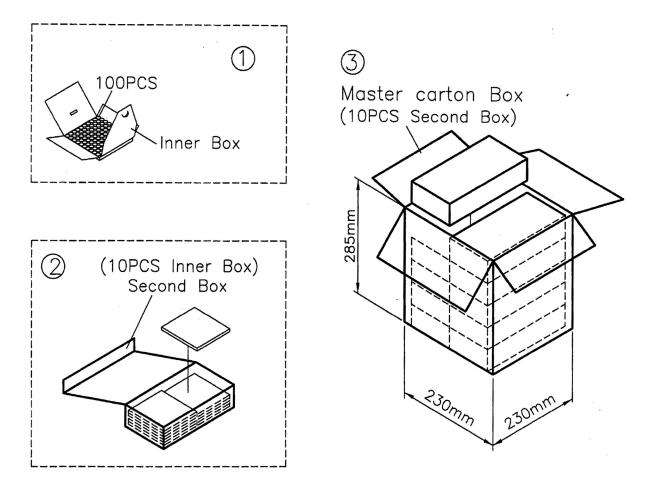
c) pressure: 860-1060 mbar c) pressure: 860-1060 mbar



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## PACKAGING



Inner Box		1x100PCS
Second Box	202mmx103mmx50mm	100PCSx10
Master carton Bo	x 230mmx230mmx285mm	1000PCSx10