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PART NUMBER: CMC-5042PF-AC

DESCRIPTION: electret condenser microphone

SPECIFICATIONS

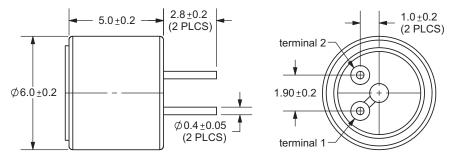
omnidirectional	
10.10.10	
-42 ±3 dB	f = 1KHz, 1Pa 0dB = 1V/Pa
-3 dB	f = 1KHz, 1Pa Vs = 2.0 ~ 1.5 V dc
2 V dc (standard), 10 V dc	: (max.)
2.2 ΚΩ	f = 1KHz, 1Pa
100 ~ 20,000 Hz	
0.5 mA max.	$Vs = 2.0 V dc RL = 2.2K\Omega$
56 dBA	f = 1KHz, 1Pa A-weighted
-20 ~ +70° C	
-20 ~ +70° C	
ø6.0 x 5.0 mm	
0.30 g max.	
AI	
pin type (Au plating, hand	soldering only)
yes	
	2 V dc (standard), 10 V dc 2.2 KΩ 100 ~ 20,000 Hz 0.5 mA max. 56 dBA -20 ~ +70° C -20 ~ +70° C ø6.0 x 5.0 mm 0.30 g max. Al pin type (Au plating, hand

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

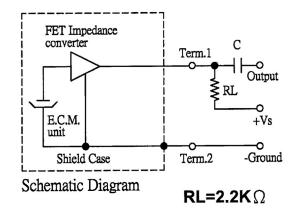




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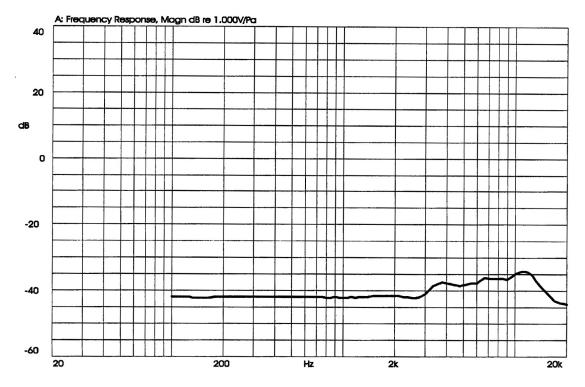
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MEASUREMENT CIRCUIT



FREQUENCY RESPONSE CURVE

X:1.0000kHz *Y:-42.00dB ZA:Live Curve SSR Fund.





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MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard
soldering heat resistance	Soldering iron of 270 ±5°C should be placed on	No interference in operation.
-	the terminal for 2 ±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°		
2	90±5% relative humidity for 240 hours.	
temp. cycle test	•	
	cycle will consist of:	The part will be measured after
	•	being placed at +25°C for 6
	+70℃	hours. After any tests, the
	+25°C +25°C	sensitivity should be within ±3dB
		compared to the initial
		measurement.
	-20°C	measurement.
	1hr $0.5hr$ 1hr $0.5hr$ 1hr $0.5hr$ 1hr $0.5hr$ 1hr	
	∊ ──── > ╡──── > ╡──── > ╡──── > ╡──── > ╡──── >	
	€	
	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

