

DESCRIPTION: electret condenser microphone

SPECIFICATIONS

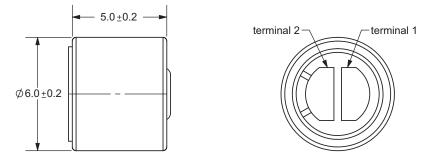
omnidirectional		
-44 ±3 dB	f = 1KHz, 1Pa 0dB = 1V/Pa	
-3 dB	f = 1KHz, 1Pa Vs = 2 ~ 1.5 V dc	
2 V dc (standard), 10	V dc (max.)	
2.2 ΚΩ	f = 1KHz, 1Pa	
100 ~ 20,000 Hz		
0.5 mA max.	$Vs = 2 V dc RL = 2.2K\Omega$	
60 dBA	f = 1KHz, 1Pa A-weighted	
-20 ~ +70° C		
-20 ~ +70° C		
ø6 x 5 mm		
0.30 g max.		
AI		
terminal type (hand soldering only)		
yes		
	-44 ±3 dB -3 dB 2 V dc (standard), 10 2.2 KΩ 100 ~ 20,000 Hz 0.5 mA max. 60 dBA -20 ~ +70° C -20 ~ +70° C Ø6 x 5 mm 0.30 g max. Al terminal type (hand sc	$-44 \pm 3 \text{ dB}$ f = 1KHz, 1Pa 0dB = 1V/Pa -3 dB f = 1KHz, 1Pa Vs = 2 ~ 1.5 V dc 2 V dc (standard), 10 V dc (max.) 2.2 K Ω f = 1KHz, 1Pa 100 ~ 20,000 Hz f = 1KHz, 1Pa 100 ~ 20,000 Hz 0.5 mA max. Vs = 2 V dc RL = 2.2K Ω 60 dBA 60 dBA f = 1KHz, 1Pa A-weighted $-20 ~ +70^{\circ}$ C -20 ~ $+70^{\circ}$ C ϕ 6 x 5 mm 0.30 g max. Al terminal type (hand soldering only)

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

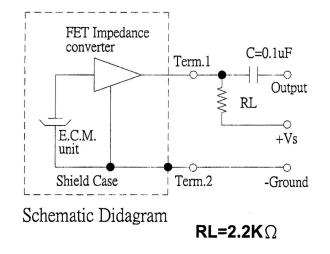
tolerances not shown: ±0.3mm





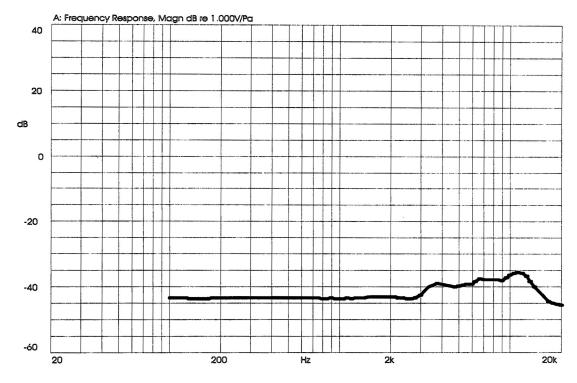
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MEASUREMENT CIRCUIT



FREQUENCY RESPONSE CURVE

X:1.0000kHz *Y:-44.00dB 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°C and	The part will be measured after	
-	90±5% relative humidity for 240 hours.		
temp. cycle test	The part shall be subjected to 10 cycles. One		
	cycle will consist of:		
	+70°C	being placed at +25°C for 6	
		hours. After any tests, the	
	+25°C +25°C	sensitivity should be within ±3d	
		compared to the initial	
		measurement.	
	-20°C		
	1hr 0.5hr 1hr 0.5hr 1hr 0.5hr 1hr		
	₄		
	↓		
	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

