

DESCRIPTION: electret condenser microphone

SPECIFICATIONS

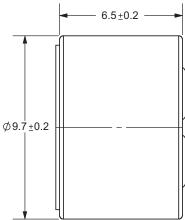
directivity	omnidirectional		
sensitivity (S)	-42 ±2 db	f = 1KHz, 1Pa 0dB = 1V/Pa	
sensitivity reduction (Δ S-Vs)	-3 dB	f = 1KHz, 1Pa	
operating voltage	1.5 V dc (standard), 10 V dc (max.)		
output impedance (Zout)	1.5 ΚΩ	f = 1KHz, 1Pa	
operating frequency (f)	100 ~ 20,000 Hz		
current consumption (IDSS)	0.5 mA max.	Vs = 1.5 V dc RL = 1.5KΩ	
signal to noise ratio (S/N)	58 dBA	f = 1KHz, 1Pa A-weighted	
operating temperature	-20 ~ +70° C		
storage temperature	-20 ~ +70° C		
dimensions	ø9.7 x 6.5 mm		
weight	0.85 g max.		
material	AI		
terminal	terminal type (hand soldering only)		
RoHS	yes		

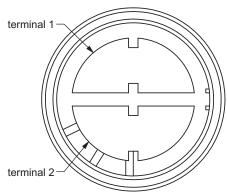
note:

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

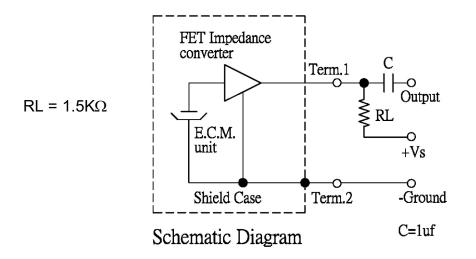




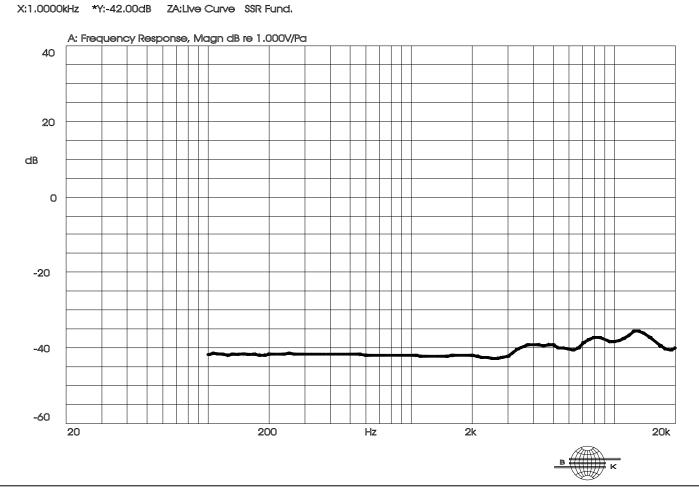


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MEASUREMENT CIRCUIT



FREQUENCY RESPONSE CURVE





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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	The part will be measured after being placed at +25°C for 6
	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℃	hours. After any tests, the
	+25°C +25°C	sensitivity should be within ±3dE
		compared to the initial
		measurement.
	-20°C	measurement.
	1 hr 0.5 hr 1 hr 0.5 hr 1 hr 0.5 hr 1 hr	
	∢	
	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

