

#### **DESCRIPTION:** electret condenser microphone

### **SPECIFICATIONS**

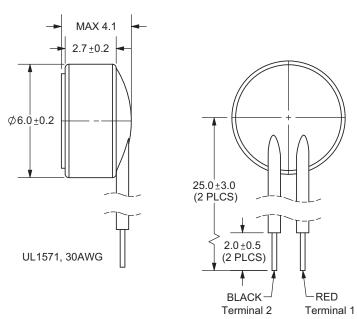
1V/Pa 2.0 ~ 1.5 V dc		
2.0 ~ 1.5 V dc		
2ΚΩ		
hted		
wire type (hand soldering only)		

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

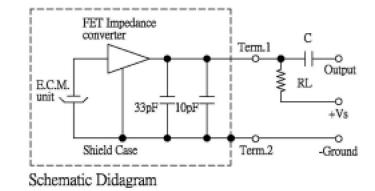




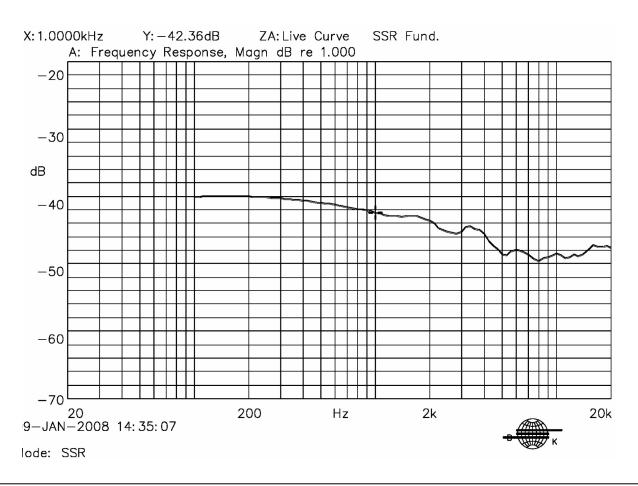
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## **MEASUREMENT CIRCUIT**

 $RL = 2.2K\Omega$ 



# FREQUENCY RESPONSE CURVE



20050 SW 112th Ave. Tualatin, Oregon 97062 phone 503.612.2300 fax 503.612.2383 www.cui.com



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## **MECHANICAL CHARACTERISTICS**

item	test condition	evaluation standard
solderability	Stripped wires of lead wires are immersed in	90% min. stripped wires will be
(connector excepted)	rosin for 5 seconds and then immersed in a	wet with solder.
	solder bath of 270 $\pm$ 5°C for 3 $\pm$ 0.5 seconds.	(except the edge of the terminal)
lead 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
	<b>+70°</b> C	being placed at +25°C for 6
		hours. After any tests, the
	+25°C +25°C	sensitivity should be within ±3dB
		compared to the initial
		measurement.
	-20°C	
	1hr 0.5hr 1hr 0.5hr 1hr 0.5hr 1hr	
	<b>₄</b>	
	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

