

## **SPECIFICATION**

PRODUCT TYPE: PMO-4015SN-42UQ

(RoHS)

DSND	
BY	
CHKD	
BY	
APVD	
BY	

# 光键股份有限公司

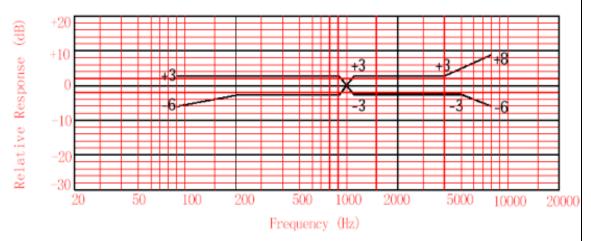
## HITPOINT INC.

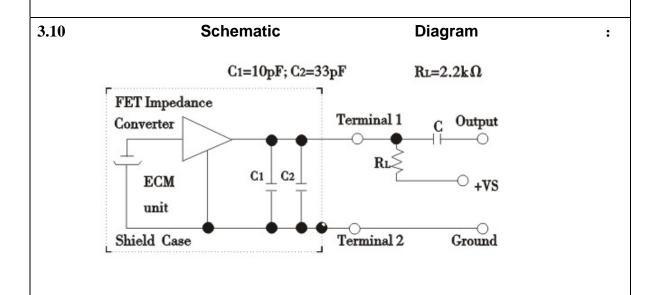
**Add:** No.4, Lane 505 ,Zhongzheng Road, Linkou Shiang, Taipei,Taiwan24445 **Tel:** + 886-2-2601-3311 **FAX:** + 886-2-2601-3898

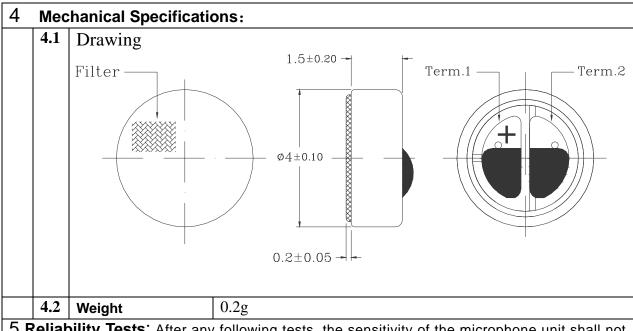
http://www.hitpoint.com.tw/

Name	Name: Omnidirectional Electret Condenser Microphone (BACK Electret Type)		
TYPE	TYPE: PMO-4015SN-42U		
Elect	Electrical Specifications:		
3.1	.1 Sensitivity Range	-42±3dB RL=2.2K Ω VS=2.0V (1KHz 0dB=1V/Pa)	
3.2	.2 Impedance	Max .2.2K $\Omega$ 1KHz (RL=2.2K $\Omega$ )	
3.3	.3 Frequency	50-12000 Hz	
3.4	.4 Current Consumption	Max.0.5mA	
3.5	.5 Operation Voltage Range	1.0V-10V	
3.6	.6 Max. Sound Pressure Level	120dB S.P.L	
3.7	.7 S/N Ratio	More than 58dB	
3.8	8 Sensitivity Reduction	2.0V-1.5V Sensitivity Variation less than 3dB	
3.6 3.7 3.8	Max. Sound Pressure Level 7 S/N Ratio 8 Sensitivity Reduction	120dB S.P.L  More than 58dB  2.0V-1.5V Sensitivity Variation less than 3dB	

### 3.9 Typical Frequency Response Curve:







**5.Reliability Tests:** After any following tests, the sensitivity of the microphone unit shall not change more than  $\pm 3 \text{dB}$  from initial value, and shall keep their initial operation and appearance.

	5.1	Hi-Temp. Test	To be no interference in operation after high temperature test 70+/-3 $^{\circ}\text{C}$
			for 48 hours The sensitivity to be within +/-3dB from initial sensitivity.
	5.2	Low-Temp. Test	To be no interference in operation after Low temperature test -20+/-3°C
			for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity.
	5.3		To be no interference in operation after storage test at temperature
		Isotherm&	$40+/-3^{\circ}$ °C and relative humidity (93±3%) for 48 hours. The sensitivity
		ISO-humidity Test	to be within +/-3dB from initial sensitivity. the test is performed at
			temperature 20°C after operation for 6 hours.
	5.4	Temperature Cycle	After exposure at +55+/-2°C for 1 hour, at 20+/-2°C for 1 hour, at
			-10+/-2°C for 1 hour, at 20+/-2°C for 1 hour, with 5 cycles. Change
		Test	of sensitivity within +/-3dB from initial measuring should be done after
			2 hours exposed to $20+/-2^{\circ}\mathbb{C}$ .
	5.5 Vibration		To be no interference in operation after vibration
		Vibration Test	of full amplitude 2mmfor 30 minutes at three axis, the se
			nsitivity to be within $\pm -3  \mathrm{dB}$ from initial sensitivity.
	5.6 Dropping		To be no interference in operation after dropped to concrete floor each
		Dropping Test	time from 1- meter height of three directions in state of packing, the
			sensitivity to be within +/-3dB fro-initial sensitivity
		I	

#### 6 Environmental Condition:

6.1	Storage condition	-20℃~+60℃ R.H. less than 45%~75%
6.2	Operation condition	$-10$ $^{\circ}$ C $^{\circ}$ +45 $^{\circ}$ C R.H. less than 85%
6.3	Arbitration condition	Temperature : 20°C±1°C Relative humidity: 63%~67%
	Condition	Air pressure : 86~106Kpa

#### 7 Notices:

- All the soldering procedures upon microphones must be completed in a metallic device, the temperature of the soldering iron must be limited as 310  $^{\circ}\text{C} \pm 20^{\circ}\text{C}$ .
- 7.2 Operators, the solder fixtures and the soldering irons must be statically grounded under each soldering process.