

SPECIFICATION

PRODUCT TYPE: PMOF-6027PN-42UQ

(RoHS)

| DSND | |
|------|--|
| BY | |
| CHKD | |
| BY | |
| APVD | |
| BY | |

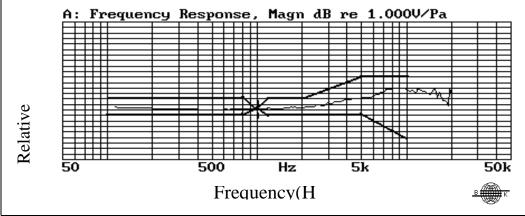
光键股份有限公司

HITPOINT INC.

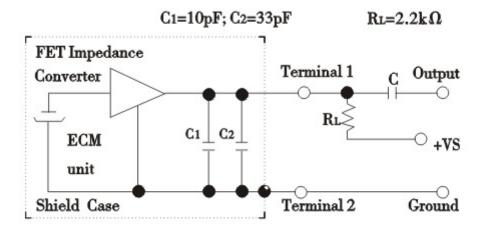
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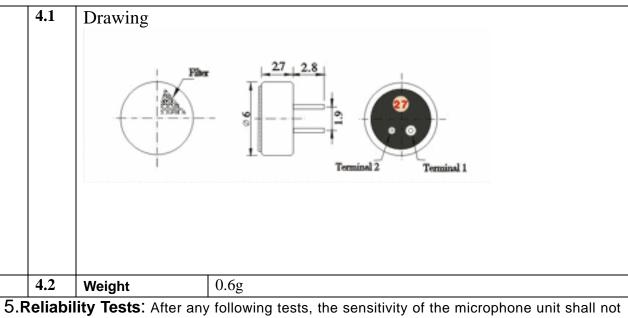
| 1 | Name: Omnidirectional Electret Condenser Microphone (Foil Electret Type) | | |
|---|--|------------------------------|--|
| 2 | TYPE: PMOF-6027PN-42U | | |
| 3 | Electrical Specifications: | | |
| | 3.1 | Sensitivity Range | -42±3dB RL=2.2K Ω VCC=2.0V (1KHz 0dB=1V/Pa) |
| | 3.2 | Impedance | Max .2.2K Ω 1KHz (RL=2.2K Ω) |
| | 3.3 | Frequency | 20-16000 Hz |
| | 3.4 | Current Consumption | Max.0.5mA |
| | 3.5 | Operation Voltage Range | 1.0V-10V |
| | 3.6 | Max. Sound Pressure Level | 120dB S.P.L |
| | 3.7 | S/N Ratio | More than 58dB |
| | 3.8 | Sensitivity Reduction | 2.0V-1.5V Sensitivity Variation less than 3dB |
| | 3.9 Typical Frequency Response Curve: | | |



3.10 Schematic Diagram:



4 **Mechanical Specifications:**



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.

| | | operatio | n and appearance. | | |
|---|-------------|--|---|--|--|
| | 5.1 | Hi-Temp. Test | To be no interference in operation after high temperature test 70+/-3°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 $-20+/-3^{\circ}\mathbb{C}$ | | |
| | J. <u>Z</u> | Low-remp. rest | for 48 hours, the sensitivity to be within +/-3dB from initial sensitivity. | | |
| | | | To be no interference in operation after storage test at temperature | | |
| | 5.3 | 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. | | |
| | | | After exposure at +55+/-2°C for 1 hour, at 20+/-2°C for 1 hour, at | | |
| | 5.4 | Temperature Cycle | -10+/-2°C for 1 hour, at 20+/-2°C for 1 hour, with 5 cycles. Change | | |
| | 5.4 | Test | of sensitivity within +/-3dB from initial measuring should be done after | | |
| | | | 2 hours exposed to $20+/-2^{\circ}\mathbb{C}$. | | |
| | | Vibration Test | To be no interference in operation after vibration | | |
| | 5.5 | | of full amplitude 2mmfor 30 minutes at three axis, the se | | |
| | | | nsitivity to be within +/-3dB from initial sensitivity. | | |
| | T. | Drawning Tool | To be no interference in operation after dropped to concrete floor each | | |
| | 5.6 | Dropping Test | time from 1- meter height of three directions in state of packing, the | | |
| | | | sensitivity to be within +/-3dB fro-initial sensitivity | | |
| 6 | Envir | ironmental Condition: | | | |
| | 6.1 | Storage condition | -20℃~+60℃ R.H. less than 45%~75% | | |
| | 6.2 | Operation condition | -10°C~+45°C R.H. less than 85% | | |
| | | Arbitration condition | Temperature : 20°C±1°C | | |
| | 6.3 | | Relative humidity: 63%~67% | | |
| | | Condition | Air pressure : 86~106Kpa | | |
| 7 | Notic | ces: | | | |
| ` | | All the soldering procedures upon microphones must be completed in | | | |
| | 7.1 | | | | |
| | | | | | |

Operators, the solder fixtures and the soldering irons must be statically

grounded under each soldering process.

7.2