

Model No.

JL-063C

**SPECIFICATION**  
of **Electret Condenser Microphone**  
( RoHS Compliance )

Model No.: JL-063C

:

ISSUED BY	J.C	04-02-2003
CHECKED BY		
APPROVED BY		

Model No.

JL-063C

Publication History

Version	Description	Date	Auther	Approved

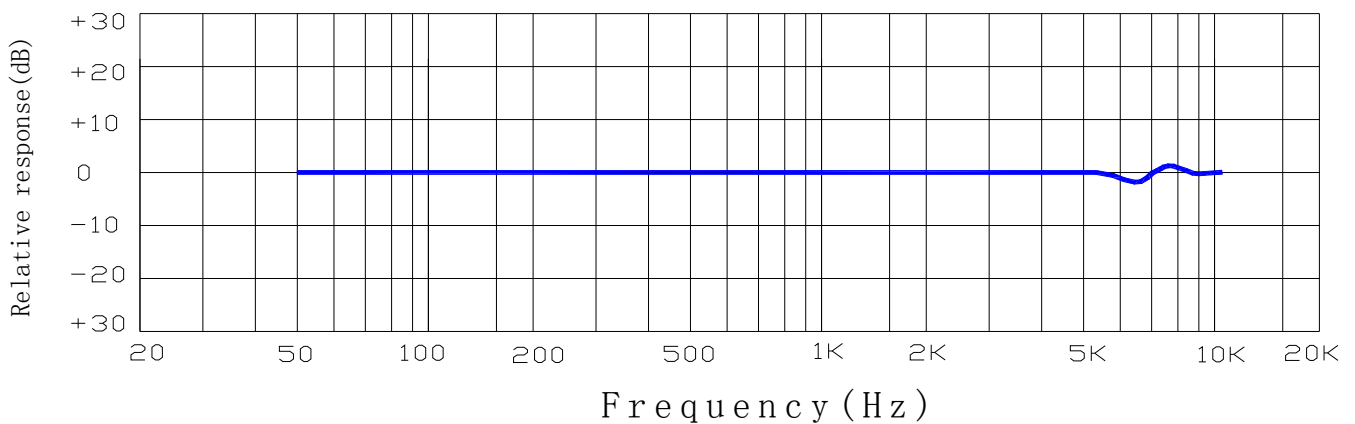


Scope: The specification describes the requirements of a pin type omnidirectional Condenser microphone.

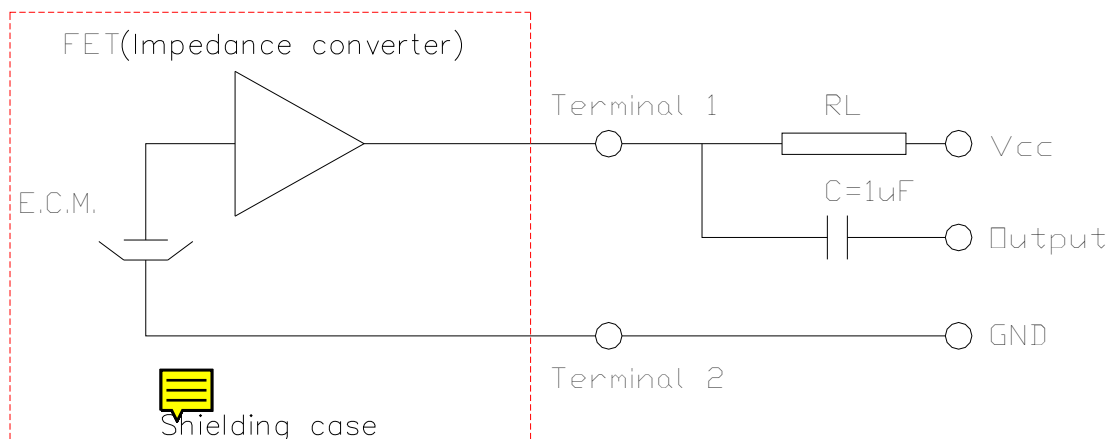
1、Electrical requirements:  $V_{cc}=2.0V$ ,  $R_L=2.2K\Omega$

Items	Description	Min	TYP	Max	Unit
Sensitivity	$f=1KHz$ , $P_{in}=1Pa$	-43	-40	-37	dB
Output impedance	$f=1KHz$ , $P_{in}=1Pa$			2.2K	$\Omega$
Directivity	Omnidirectional				
Power consumption				500	$\mu A$
S/N ratio	A-weight, at 1Pa	60			dB
Max. input SPL	THD<1%		120		dB
Sensitivity reduction	$V_{cc}$ from 2.0V to 1.0V			-3	dB
Operating voltage range		1.0		10	V

2、Frequency response



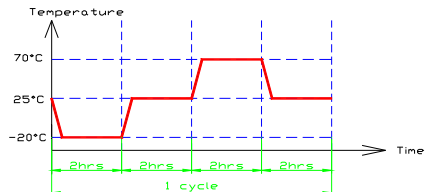
3、Measurement schematic :



## 4、Mechanical requirements :

3-1、Dimension :  $\varnothing 6.0 \times 5.2$  mm3-3、Soldering heat shock : After soldering heat shock at  $310 \pm 5^\circ\text{C}$  for  $3 \pm 1$  seconds.  
The microphone should be without damage.3-4、Terminal strength : After applied a 1 Kg force on terminal for 1 minute.  
The microphone should be without damage.3-5、Operating temperature range :  $-20^\circ\text{C} \sim 60^\circ\text{C}$ 3-6、Storage temperature range :  $-30^\circ\text{C} \sim 70^\circ\text{C}$ 

## 5、Reliability test :

Vibration test	After vibrations with 10Hz~55Hz, full amplitude 2mm to each 3 perpendicular directions for 30 minutes at three axes. The sensitivity should be within $\pm 3$ dB from initial value.
Drop test	After drop from 1 meter height to concrete floor, each 5 face for 5 times with packing. The sensitivity should be with $\pm 3$ dB from initial value.
Humidity test	After exposure at $40 \pm 2^\circ\text{C}$ and 90%~95% humidity for 48 hours. The sensitivity should be with $\pm 3$ dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$ .)
High temperature test	After exposure at $70 \pm 2^\circ\text{C}$ for 72 hours. The sensitivity should be with $\pm 3$ dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$ .)
Low temperature test	After exposure at $-30 \pm 2^\circ\text{C}$ for 72 hours. The sensitivity should be with $\pm 3$ dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$ .)
Temperature cycle test	After exposure at $-20 \pm 2^\circ\text{C}$ for 2 hours, at $25 \pm 2^\circ\text{C}$ for 2 hours, at $70 \pm 2^\circ\text{C}$ for 2 hours, 5 cycles. The sensitivity should be with $\pm 3$ dB from initial value. (The measurement should be done after 3 hours at conditioning $25 \pm 2^\circ\text{C}$ .) 

6、Microphone dimension :

Unit : mm

