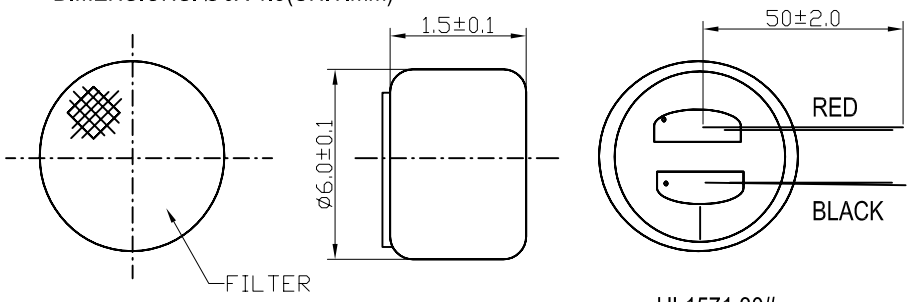
DWG. NO. MI-2608-F REV. "-"

PART NO. REM-6015B-3050

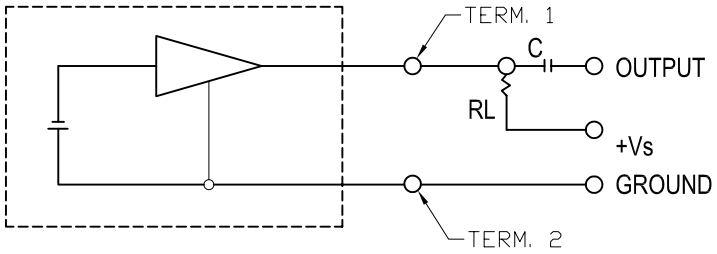
1. CONSTRUCTION

DIMENSIONS: Ø6X 1.5(UNIT:mm)



UL1571 30#

2. MEASUREMENT CIRCUIT



MIC CASE 10pf 33pf RL=2.2KOhm C=1uF

3. SPECIFICATIONS

NO.	ITEM	STANDARD	NO.	ITEM	STANDARD
1	SENSITIVITY	-42± 3dB	6	STANDARD POWER SUPPLY	DC 3.0V
2	OUTPUT IMPEDANCE	≤2.2K Ohm	7	MIN OPERATION VOLTAGE	1.5V
3	DIRECTIVITY	OMNIDIRECTIONAL	8	CURRENT CONSUMPTION	≤0.5mA
4	FREQUENCY RANGE	50-16,000 Hz	9	SIGNAL TO NOISE RATIO	⩾ 60dB
5	OPERATION VOLTAGE	DC 1.5V-10V			

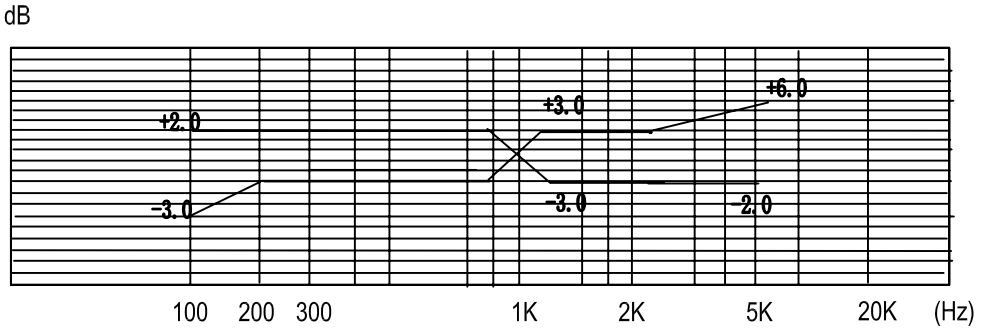
4. ELECTRICAL SPECIFICATIONS

TEST CONDITION (Vs=DC 3.0V,RL=2.2KOHM TEMP=20℃,ROOM HUMIDITY= 65%)

ITEM	SYMBOL	TEST CONDITION	MINIMUM	STANDARD	MAXIMUM	UNIT
SENSITIVITY **	S	f = 1KHz,P = 1Pa	-45	-42	-39	dB
OUTPUT IMPEDANCE	Zout	f = 1KHz,P = 1Pa			2.2	KOhm
DIRECTIVITY						
CURRENT CONSUMPTION	I				0.5	mA
S/N RATIO	S/N	F=1KHz,P=1Pa A CURVE	60			dB
DECREASING VOLTAGE CHARACTERISTIC	△S	F=1KHz,P=1Pa Vs=1.5V TO 1.0V			-3	dB
SOUND PRESSURE LEVEL		F=1KHz	110			dB

0dB=1V/Pa

5 FREQUENCY RESPONSE ALLOWANCE RANGE



ECN#	DATE	SYM	REVISION RECORD	AUTH	BY

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. INCHES N/A

DEC. MILLIMETERS N/A

ANG. N/A

RDI Research Develop Innovate

RDI, Inc. 400 Columbus Avenue Valhalla, NY 10595

TITLE: BACK ELECTRET MICROPHONE W/LEADS-OMNI-DIRECTIONAL

DR.	DATE	REF.	
Jin	10/18/05	P/N: REM-6015B-3050	1 OF 2

CK.	PRE-	DRAWING NO.	SIZE	REV.
JY	MI	2608	F	-

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6. MECHANICAL SPECIFICATION

WEIGHT	LESS THAN: 0.5g	
SOLDERING HEAT SHOCK	TO BE NO INTERFERE IN OPERATION AFTER SOLDERING HEAT SHOCK,TEMPERATURE 260℃± 5℃ FOR 10± 1 SECONDS.	
TERMINAL MECHANICAL STRENGTH	TO BE NO INTERFERE IN OPERATION AFTER PULLED THE TERMINAL WITH 1Kg STRENGTH FOR 1 MINUTE.	
ABSOLUTE MAXIMUM RATINGS	OPERATING VOLTAGE 10V	STORAGE TEMPERATURE RANGE -20~+60℃

7. RELIABILITY TEST

VIBRATION TEST	TO BE NO INTERFERE IN OPERATION AFTER VIBRATION 10Hz TO 30Hz FOR 1 MINUTE FULL AMPLITUDE 0.55mm FOR 1 HOURS AT THREE AXISES.
DROP TEST	TO BE NO INTERFERE IN OPERATION AFTER DROPPED TO CONCRETE FLOOR EACH ONE TIME FROM 1 METER HEIGHT AT THREE DIRECTIONS IN STATE OF PACKING.
TEMPERATURE TEST	a) AFTER EXPOSURE AT 65℃ FOR 200 HOURS, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20℃) b) AFTER EXPOSURE AT -20℃ FOR 200 HOURS, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20℃)
HUMIDITY TEST	AFTER EXPOSURE AT 60℃± 2℃ AND 90 TO 93±3% RELATIVE HUMIDITY FOR 200 HOURS,SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20℃)
TEMPERATURE CYCLE TEST	AFTER EXPOSURE AT -20℃ FOR 2 HOURS, AT 20℃ FOR 30 MINUTES,AT 60℃ FOR 2 HOURS,AT 20℃ FOR 10 MINUTES,5 CYCLES, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20℃)

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SCALE N/A

TOLERANCE EXCEPT AS NOTED

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