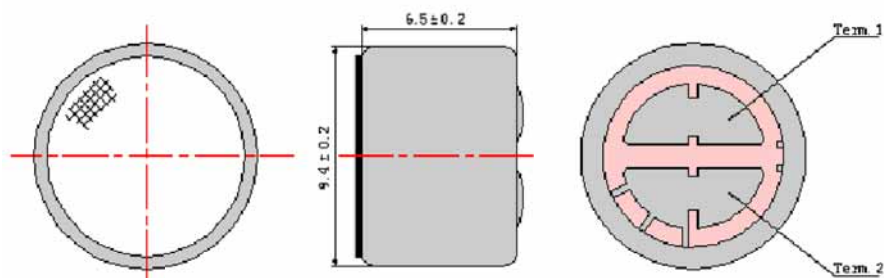
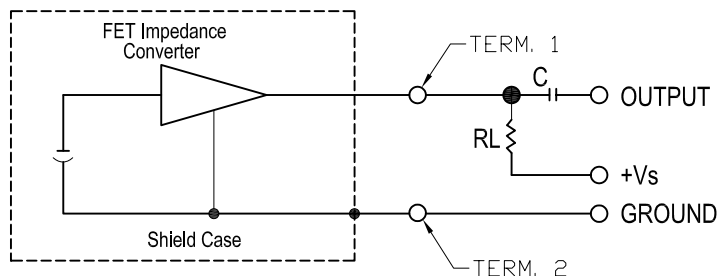


1. CONSTRUCTION

DIMENSIONS: Ø9.4X 6.5 (UNIT:mm)



2. MEASUREMENT CIRCUIT



3. SPECIFICATIONS

-40dB(0dB/1V/Pa)=-60dB(0dB=1V/ubar)

NO.	ITEM	STANDARD	NO.	ITEM	STANDARD
1	SENSITIVITY	-46± 2dB(0dB=1V/Pa)	6	STANDARD POWER SUPPLY	DC 4.5V
2	OUTPUT IMPEDANCE	≤2.2KOhm	7	MIN OPERATION VOLTAGE	1.0V
3	DIRECTIVITY	OMNIDIRECTIONAL	8	CURRENT CONSUMPTION	≤0.5mA
4	FREQUENCY RANGE	20-16,000 Hz	9	SIGNAL TO NOISE RATIO	≥ 60dB
5	OPERATION VOLTAGE	DC 1.0V-10V			

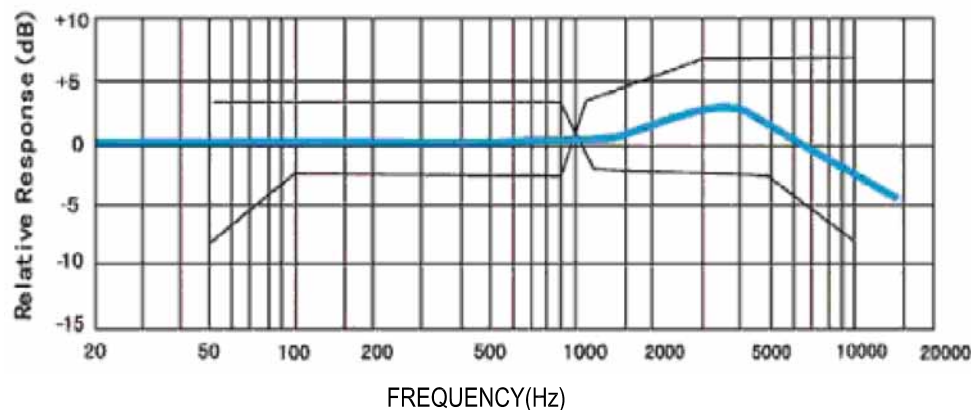
4. ELECTRICAL SPECIFICATIONS



TEST CONDITION ( Vs=DC 4.5V,RL=2.2KOHM TEMP=20°C,ROOM HUMIDITY= 65%)

ITEM	TEST CONDITION	MINIMUM	STANDARD	MAXIMUM	UNIT
SENSITIVITY ***	f = 1KHz,P = 1uPa	-48	-46	-44	dB
OUTPUT IMPEDANCE	f = 1KHz,P = 1uPa			2.2K	Ohm
DIRECTIVITY	f = 1KHz,P = 1uPa				
CURRENT CONSUMPTION				0.5	mA
S/N RATIO	F=1KHz,P=1uPa A CURVE	60			dB
DECREASING VOLTAGE CHARACTERISTIC	F=1KHz,P=1Pa Vs=2V TO 1.0V			-3	dB
SOUND PRESSURE LEVEL	f=1KHz	110			dB

5 FREQUENCY RESPONSE ALLOWANCE RANGE



ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
08-413	11/15/08	B	REVISED R 1.0 TO 2.2Kohm OF THE TEST CONDITION & OUTPUT IMPEDANCE	GM	JY
08-389	10/31/08	A	REVISED 1.0KOhm TO 2.2KOhm	GM	JY

PROJECTION	<b>RDI</b> Research Develop Innovate RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549			
SCALE N/A	TITLE ELECTRE CONDENSER MICROPHONE-RoHS COMPLIANT			
TOLERANCE EXCEPT AS NOTED	DR. Jin	DATE 10/23/08	REF. P/N: REM-4F-6-46DB-NL	1 OF 2
DEC. INCHES N/A	CK. VF	PRE-MI	DRAWING NO. 3518	SIZE F
DEC. MILLIMETERS N/A	THIS DOCUMENT IS OWNED BY, AND THE INFORMATION CONTAINED IN IT IS PROPRIETARY TO, RDI, BY RECEIPT HEREOF THE HOLDER AGREES NOT TO USE THE INFORMATION AND NOT TO DISCLOSE IT TO ANY THIRD PARTY, NOR REPRODUCE THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF RDI, AND AGREES TO RETURN THIS DOCUMENT FORTHWITH UPON REQUEST.			
ANG. N/A	REV. <b>B</b>			

6. MECHANICAL SPECIFICATION

WEIGHT	LESS THAN: 0.86g	
SOLDERING HEAT SHOCK	TO BE NO INTERFERE IN OPERATION AFTER SOLDERING HEAT SHOCK, TEMPERATURE 260°C±5°C FOR 3±0.5 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	-25~+70°C
	OPERATING TEMPERATURE RANGE	-20~+60°C


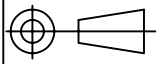
HUMIDITY TEST	AFTER EXPOSURE AT 60°C±2°C AND 90 TO 95±% RELATIVE HUMIDITY FOR 200 HOURS, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20°C)
TEMPERATURE CYCLE TEST	AFTER EXPOSURE AT -25°C FOR 30 MINUTES, AT 20°C FOR 10 MINUTES, AT 70°C FOR 30 MINUTES, AT 20°C 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°C)

7. RELIABILITY TEST

VIBRATION TEST	TO BE NO INTERFERE IN OPERATION AFTER VIBRATION 10Hz TO 50Hz FOR 1 MINUTE FULL AMPLITUDE 1.52mm FOR 2 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 60°C FOR 200 HOURS, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20°C) b) AFTER EXPOSURE AT -25°C FOR 200 HOURS, SENSITIVITY TO BE WITHIN ±3dB FROM INITIAL SENSITIVITY. (THE MEASUREMENT TO BE DONE AFTER 2 HOURS OF CONDITIONING AT 20°C)

8. PART STOFF LIST

NO.	PART NAME	MATERIAL	QTY	COLOR
1	FIXED ELECTRODE	BRASS TYPE(NI COATING)	1	BRIGHT
2	F.E.T	K596(B)	1	BLACK
3	CASE	ALUMINIUM PLATES	1	BRIGHT
4	CLOTH	BLACK CLOTH	1	BLACK
5	P.C.B	SINGLE-SIDE PHENOLIC RESIN	1	NATURE COLOR
6	DIAPHRAGM	IMPORTED PLATE(Ni OR Au COATING)	1	BRIGHT
7	PLASTIC HOLDER	ABS	1	BRIGHT
8	GAP SPACER	POLYESTER FILM	1	RED

PROJECTION	 <b>Research Develop Innovate</b> RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549			
 SCALE N/A	TITLE ELECTRE CONDENSER MICROPHONE-RoHS COMPLIANT			
TOLERANCE EXCEPT AS NOTED	DR. Jin	DATE 10/23/08	REF. P/N: REM-4F-6-46DB-NL	2 OF 2
DEC. INCHES N/A	CK. VF	PRE-MI	DRAWING NO. 3518	SIZE F
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