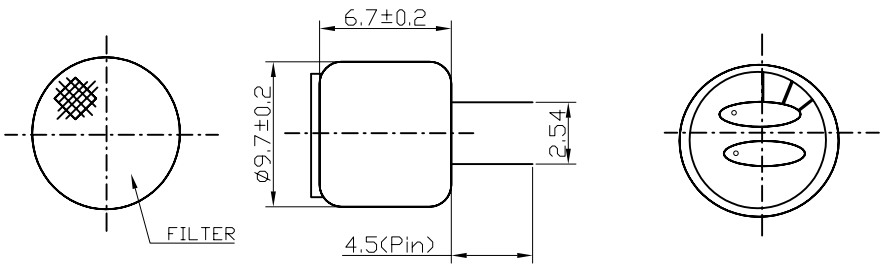
DWG. NO. MI-2905-F REV. "-"

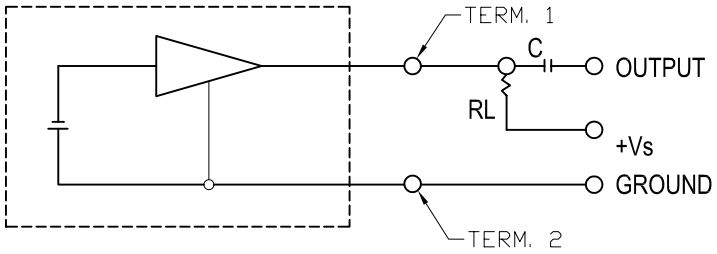
PART NO. REM-9767P-42-NL

1. CONSTRUCTION

DIMENSIONS: Ø9.7X 6.7 (UNIT:mm)



2. MEASUREMENT CIRCUIT



MIC CASE

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	≤2.2KOhm	7	MIN OPERATION VOLTAGE	1.0V
3	DIRECTIVITY	OMNIDIRECTIONAL	8	CURRENT CONSUMPTION	≤0.5mA
4	FREQUENCY RANGE	50-16,000 Hz	9	SIGNAL TO NOISE RATIO	⩾ 58dB
5	OPERATION VOLTAGE	DC 1V-10V			

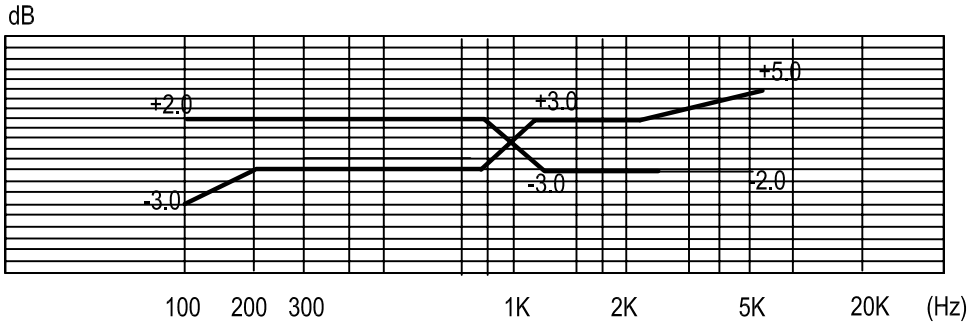
4. ELECTRICAL SPECIFICATIONS

TEST CONDITION (Vs=DC 1.5V,RL=2.2KOHM TEMP=20℃,ROOM HUMIDITY= 65%)

ITEM	SYMBOL	TEST CONDITION	MINIMUM	STANDARD	MAXIMUM	UNIT
SENSITIVITY ***	S	f = 1KHz,P = 1uPa	-45	-42	-39	dB
OUTPUT IMPEDANCE	Zout	f = 1KHz,P = 1uPa			2.2	KOhm
DIRECTIVITY						
CURRENT CONSUMPTION	I				0.5	mA
S/N RATIO	S/N	F=1KHz,P=1uPa A CURVE	58			dB
DECREASING VOLTAGE CHARACTERISTIC	△S	F=1KHz,P=1uPa Vs=3V TO 1.5V			-3	dB
SOUND PRESSURE LEVEL		F=1KHz	110			dB

*** 0dB=1V/uPa

5 FREQUENCY RESPONSE ALLOWANCE RANGE



ECN#	DATE	SYM	REVISION RECORD	AUTH	BY

PROJECTION

RDI Research Develop Innovate

RDI, Inc. 400 Columbus Avenue Valhalla, NY 10595

SCALE N/A

TITLE: ELECTRE CONDENSER MICROPHONE-RoHS COMPLIANT

TOLERANCE EXCEPT AS NOTED

DR. Jin | DATE 07/17/06 | REF. P/N: REM-9767P-42-NL | 1 OF 2

DEC. INCHES N/A

CK. Jin | PRE- MI | DRAWING NO. 2905 | SIZE F | REV. -

DEC. MILLIMETERS N/A

ANG. N/A

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6. MECHANICAL SPECIFICATION

WEIGHT	LESS THAN: 1.5g	
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 55℃ FOR 2 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 -40℃ FOR 2 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 40℃± 2℃ AND 90 TO 93 RELATIVE HUMIDITY FOR 48 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 -25℃ FOR 30 MINUTES, AT 20℃ FOR 30 MINUTES,AT 20℃ FOR 10 MINUTES,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℃)

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
					JY

PROJECTION

RDI Research Develop Innovate

RDI, Inc. 400 Columbus Avenue Valhalla, NY 10595

SCALE N/A

TITLE ELECTRE CONDENSER MICROPHONE-RoHS COMPLIANT

TOLERANCE EXCEPT AS NOTED

DR. Jin | DATE 07/17/05 | REF. P/N: REM-9767P-42-NL | 2 OF 2

DEC. INCHES N/A

CK. JY | PRE- MI | DRAWING NO. 2905 | SIZE F | REV. -

DEC. MILLIMETERS N/A

ANG. N/A

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