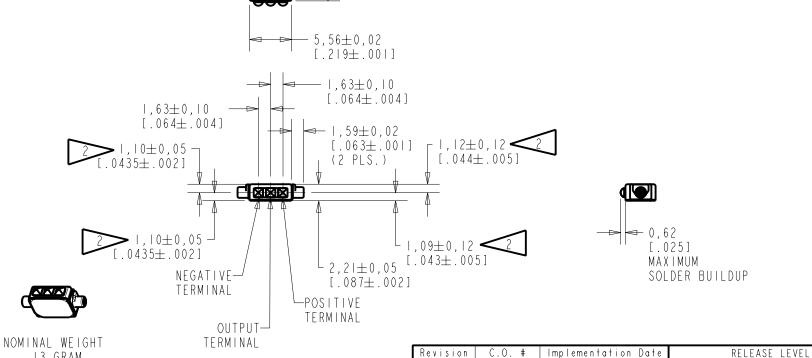
EL-23077-000

SHT I.I

## NOTES:

I. INCREASED PRESSURE AT THE SOUND INLET CAUSE A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.

▶LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE. NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO  $\pm 0$ , I7 [.007].



 $1.41 \pm 0.04$ 

 $[.0555\pm.0015]$ 

OUTER DIAMETER

 $-3,99\pm0,02$ 

 $[.157\pm.001]$ 

**KNOWLES ELECTRONICS** ITASCA, ILLINOIS U.S.A.

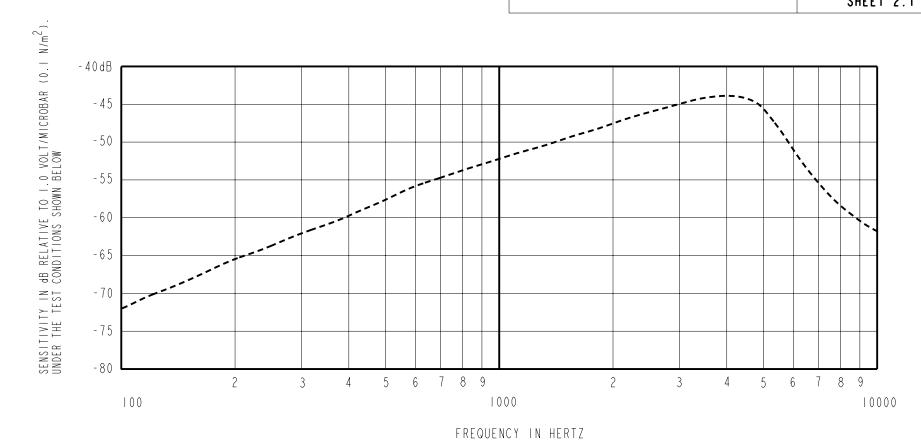
DIMENSIONS IN MILLIMETERS [INCHES]

. I3 GRAM

FRONT

A	M10101526	8-3-07	Release	: d	Α
SCALE:		DR. BY	DATE		
	LSY ck. by	8 - 3 - 0 7 DATE			
TITLE:	MICR	OPHONE	EL-23077-000	GJP APP. BY	8 - 8 - 0 7 DATE
	OUTLI	NE DRAWING	SHT I.I	GJP	8-8-07

REVISION



SE	NSITIVI	TY (0.	ON AXIS)	
FREQUEN	<u> M</u>	IN,	NOM.	MAX.
3	00 -	(	62.0	
10	00 - 5	4.0 -:	52.0 -	50.0
3   00 - 5	00 -	,	43.5	

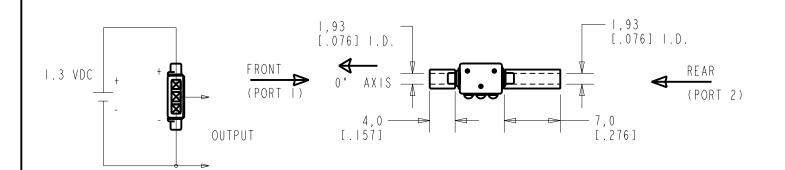
DEVICE CONFORMITY						
RANGE	OF	DEV	IATION	FROM		kНz
	-8. 0	•	-11.5			
	+3.	•	+   3.5			

INTERNAL DELAY AT 1000Hz 54µS 62µS 70µS

## NOTES:

- I. CASE CONNECTED TO NEGATIVE TERMINAL.
- 2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- 3. CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATIONS TEST, EK-PA SHEET 2.2' WITH REF. FREQ. OF 1000 Hz.
- 4. TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.03 dB/%RH.
- 5. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- 6. CAPACITANCE MEASUREMENT MADE WITH BOONTON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15m VOLTS AT 1 KHz AND 0 VDC INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.
- 7. TEST CONDITIONS WITH TUBING DESCRIBED BELOW DIMENSIONS IN MILLIMETERS (INCHES)

PORT	PORT DC AMPLIFIER CATION SUPPLY CURRENT DRAIN	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS			CAPACITANCE ±50%		
LOCATION		TO 0.9VDC	(RE I.O VOLT)	MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO POSITIVE	POS. TO NEGATIVE	
35,95	1.3V	50 uA MAX	3 dB MAX.	-100.0 dB MAX.	2800	4400	6800	N/A	N/A	N / A



Revision	C.O. # Implementation Date RELEASE LEVEL			REVISION	
			Released		Δ
А	M10101526	8 - 3 - 0 7			<i>,</i> ,
			TABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION		DATE
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				LSY	8 - 3 - 07
				CV DV	DATE

8-8-07

8-8-07

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

TITLE: MICROPHONE EL-23077-000

PERFORMANCE SPECIFICATION SHT 2.1

ELSY

CK. BY

GJP

APP. BY

GJP