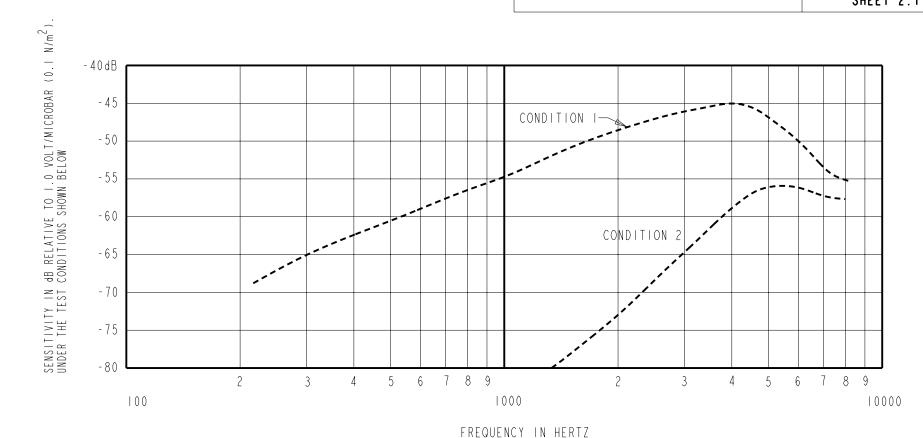
EL-23085-C28 0,48[.0|9]-SHT I.I MINIMUM STRAIGHT NOTE: I. INCREASED PRESSURE AT THE SOUND INLET CAUSES $3,99\pm0,02$ 1.61 ± 0.06 A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT $[.0635 \pm .0025]$ $[.157\pm.001]$ TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL. (2 PLS.) LOCATED FROM TWO SURFACES FOR CUSTOMER FRONT REAR CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED $1,97\pm0,05$ $[.078 \pm .002]$ $T0 \pm 0.17 [.007].$ 5.56 ± 0.02 (2 PLS.) $[.219\pm.001]$ $1,63 \pm 0,10$ $1.41 \pm 0.04 [.064 \pm .004]$ $[.0555\pm.0015]$ OUTER DIAMETER $,63\pm0,10$ r I,|2±0,|2 ◀ (2 PLS.) $[.064 \pm .004]$ $[.044 \pm .005]$ 2.21 ± 0.05 $1,09\pm0,05$ $[.087\pm.002]$ $[.043 \pm .002]$ (2 PLS.) $,09\pm0,05$ - 0.64 $1,07\pm 0,12$ $.043 \pm .002$ [.025] $[.043\pm.005]$ (2 PLS.) MAXIMUM NEGATIVE--POSITIVE SOLDER BUILDUP TERMINAL TERMINAL OUTPUT-NOMINAL WEIGHT TERMINAL Revision C.O. # Implementation Date RELEASE LEVEL REVISION . I3 GRAM Released DIMENSIONS IN MILLIMETERS [INCHES] MI0100761 8-23-05 SCALE: DATE 2:1 **KNOWLES ELECTRONICS** AΒ 8-23-05 DO NOT SCALE DRAWING CK. BY DATE ITASCA, ILLINOIS U.S.A. TITLE: MICROPHONE EL-23085-C28 GJP 8-26-05 APP BY DATE

> 8 - 26 - 05 Rev: E

SHT I.I

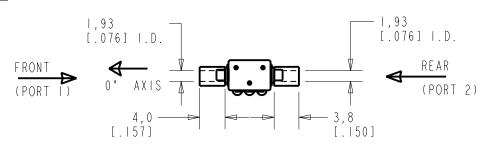
OUTLINE DRAWING



CONDITION | SENSITIVITY

DEVICE CONFORMITY RANGE OF DEVIATION FROM I KHZ

FREQUENCY	<u>M N .</u>	NOM.	<u>MAX.</u>	CONDITION I	CONDITION 2
300		-65.0		- 12.0 - 9.0	-20.0 MIN.
1000	- 58 . 5	-54.5	- 52 . 5	0.0 0.0	
3100-5100		-45.0		+4.5 + 14.5	



SIGNAL "A" IS A REFERENCE OF 1.0 MICROBAR. SIGNAL "B" IS A PROBE SIGANL DELAYED 43.2 MICROSECONDS WITH RESPECT TO SIGNAL "A" AND HAVING .987 TIMES THE AMPLITUDE.

TEST CONDITIONS WITH TUBING AND SIGNALS DESCRIBED TO THE RIGHT. DIMENSIONS IN MILLIMETERS (INCHES).

FOR CONDITION I SIGNAL "A" IS APPLIED TO PORT I SIGNAL "B" IS APPLIED TO PORT 2 FOR CONDITION 2 SIGNAL "A" IS APPLIED TO PORT 2 SIGNAL "B" IS APPLIED TO PORT I

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.

DC SUPPLY		AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±75%		
	CURRENT DRAIN	TO 0.9VDC	(RE I.O VOLT)	MIN.	NOM.	MAX.	1 - 2	1 - 3	
	1.3V	50 µA MAX	3 dB MAX.	-100.0 dB MAX.	2800	4400	6800	58pF	58pF

CAPACITANCE PROBE POINTS



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			_	
			l Released	ΙΔ
Α	M10100761	8-23-05		'\

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION PR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

TITLE: MICROPHONE EL-23085-C28 GJP

PERFORMANCE SPECIFICATION

	AD	0-23-03	
	CK. BY	DATE	
EL-23085-C28	GJP	8-26-05	
LL 20000 020	APP. BY	DATE	
SHT 2.1	GIP	8-26-05	

DATE