EK-23029-000

SHT I.I

NOTE

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

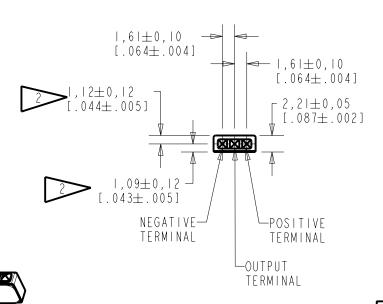
2

 $2,77\pm0.05$

 $[.109\pm.002]$

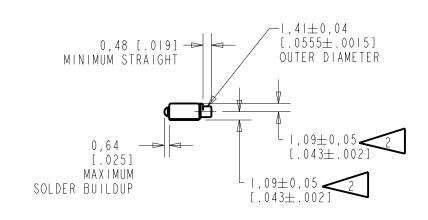
- 3,99±0,02 [.|57±.00|]

5,56±0,02 [.219±.001] LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ± 0 ,17 [.007].



 $1,61\pm0,06$

 $[.0635 \pm .0025]$



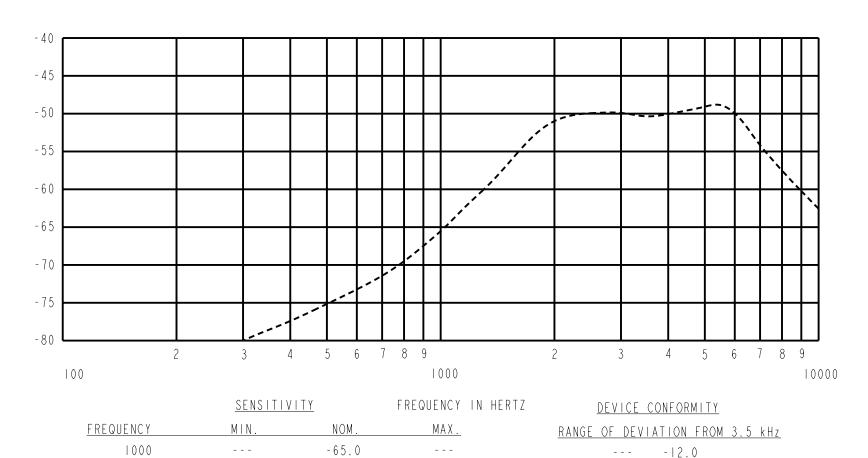
NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Dat	RELEASE LEVEL		REVISION	
A	M10101028	2 - 28 - 06	Release	A		
SCALE:	SCALE: 2:1					
	MMM CK. BY	2 - 28 - 06 DATE				
TITLE:	MIC	ROPHONE	EK-23029-000	GJP APP. BY	3 - 2 - 0 6 Date	
	OUTL	INE DRAWING	SHT I.I	G J P	3 - 2 - 0 6	

TO 1.0 VOLT/0.1 Pa (N/m²) SENSITIVITY IN dB RELATIVE FOR CONDITIONS SHOWN BELOW



- 47.0

NOTES:

I. CASE CONNECTED TO NEGATIVE TERMINAL.

3500

5200

- 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.

-50.0

- 48.5

4. TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.02 dB/%RH.

-53.0

- 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 15 mVOLTS AT 1 kHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

PORT LOCATION	DC AMPLIF	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%				
	LOCATION	SUPPLY	Y CURRENT DRAIN	TO 0.9VDC	(RE I.O VOLT)	MIN.	NOM.	MAX.	OUTPUT TO		
	128	I.3V	50 μA 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
				A
			l Released	ΙΔΙ
А	M10101028	2 - 28 - 06		/ \
			1	

SHT 2.1

DATE

DATE

3-2-06

DATE

<u>3-2-</u>06

GJP

0.0

-1.5

0.0

+4.5

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 2-28-06 CK. BY MICROPHONE EK-23029-000 GJP APP. BY

PERFORMANCE SPECIFICATION