EK-23028-000

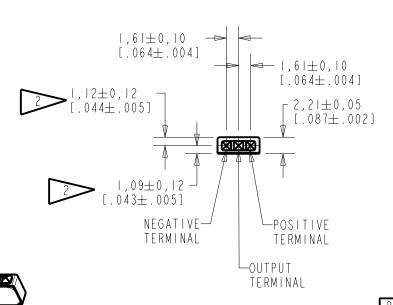
SHT I.I

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

LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO $\pm 0, 17$ [.007].



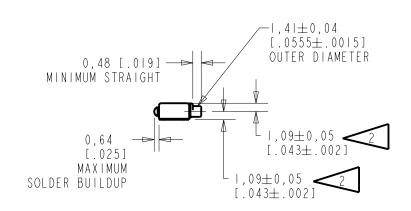
| 1,6|±0,06 -[.0635±.0025] **→** 2,77±0,05

 $[.109 \pm .002]$

 $3,99\pm0,02$

5,56±0,02 [.219±.001]

 $[.157 \pm .001]$



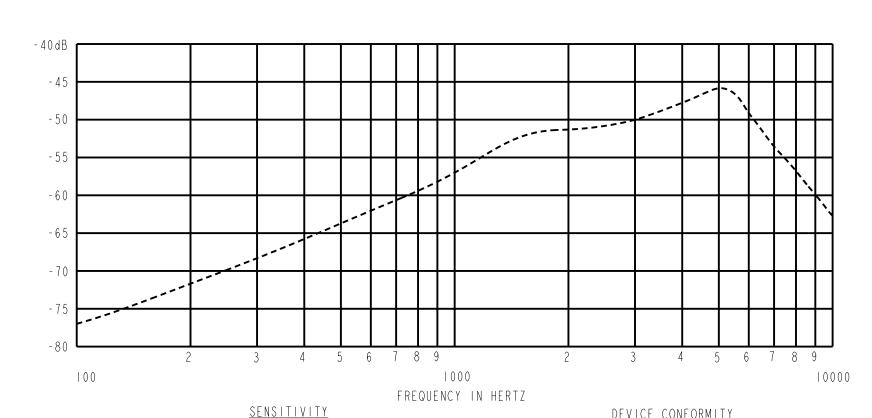
NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Da	ı t e	RELEASE LEVE	L	REVISION
A	M10101055	3-14-06		Releas	e d	A
SCALE:	2:1			DR. BY	DATE	
	DO NOT SCALE DRAWING				CK. BY	3 - 1 4 - 0 6 DATE
TITLE:	MIC	ROPHONE		EK-23028-000	GJP APP. BY	3 - 16 - 06 DATE
	OUTL	INE DRAWING		SHT I.I	G J P	3 - 16 - 06 Rev: B

SENSITIVITY IN 4B RELATIVE TO 1.0 VOLT/0.1 Pg (N/M 2) FOR CONDITIONS SHOWN BELOW.



-54.0

		
$M \mid N$.	NOM.	MAX.
	-68 0	

-57.0

-46.0

DEVICE CONFORMITY RANGE OF DEVIATION FROM IKHZ -12.5 -9.5 0.0 0.0

+ | 6.0

+6.0

NOTES:

FREQUENCY

4300-5700

300

1000

- I. CASE CONNECTED TO NEGATIVE TERMINAL.
- 2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.

-60.0

- 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 0.02 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 15 mVOLTS AT I kHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

	PORT	DC	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT	IMPEDANO	CE OHMS	CAPACITA	NCE ±50%
	LOCATION	SUPPLY	CURRENT DRAIN	TO 0.9VDC	(RE I.O VOLT)	MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO
-	128	1.3V	50 μA MAX.	3 dB MAX.	-100.0 dB MAX.	2800	4400	6800	N/A	N / A

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
				1
			l Released	Ι Δ
Α	M10101055	3-14-06	No rouseu	/\
A	MIUIUIUSS	3-14-06		

SHT 2.1

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION DR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR MMM CK. BY

TITLE: MICROPHONE EK-23028-000 GJP

PERFORMANCE SPECIFICATION

МММ	3 - 1 4 - 0 6
CK. BY	DATE
GJP	3-16-06
APP. BY	DATE
GIP	3 - 16 - 06