EK-23027-C36

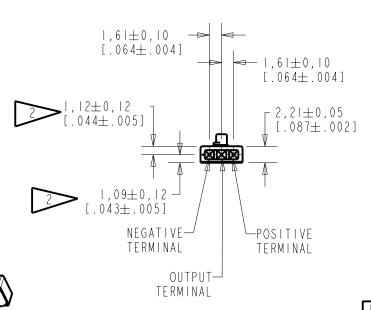
SHT I.I

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].



 $1.98 \pm 0.05 -$ 

 $[.078 \pm .002]$ 

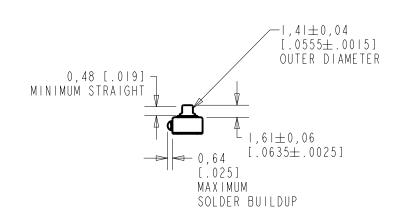
**→** 2,77±0,05

5,56±0,02
[.219±.001]

 $[.109\pm.002]$ 

 $-3.99\pm0.02$ 

 $[.157\pm.001]$ 



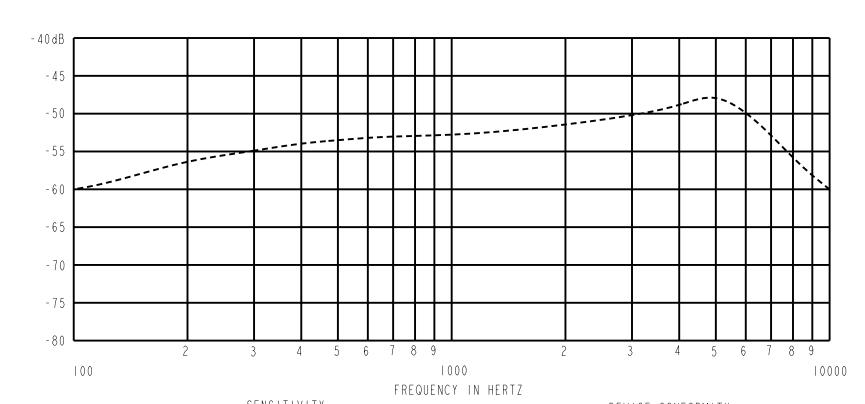
NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Da	ıte	RELEASE LEVEL		REVISION
A	M10101049	3 - 14 - 06		Release	A	
SCALE:		DR. BY	DATE			
	MMM CK. BY	3 -   4 - 0 6 DATE				
TITLE:	MIC	ROPHONE		EK-23027-C36	GJP APP. BY	3 - 1 6 - 0 6
	OUTL	INE DRAWING		SHT I.I	GJP	3-16-06





2F	N 2		1	٧		Y

<u>FREQUENCY</u>	MIN.	NOM.	MAX.
100 1000 4000-6000	 - 5 5 . 0 	-60.0 -53.0 -48.5	- 5 I . 0 

## DEVICE CONFORMITY

RANGE	OF	DEV	IAT	ION	FROM	<u> IKHz</u>
	-	. 0		- 4.	0	
	0	. 0		0.	0	
	+	5		+ 7	5	

## 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 0.02 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 1 kHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

PORT	DC	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%				
LOCA	TION	SUPPLY	CURRENT DRAIN	TO 0.9VDC		MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO POSITIVE	POS. TO NEGATIVE
0	K	1.3V	50 μΑ MAX.	3 dB MAX.	26.0 dB MAX.	2800	4400	6800	58pF	N/A	58pF

## CAPACITANCE PROBE POINTS

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
				A
			l Released	ΙΔ
Α	MI0101049	3 - 1 4 - 0 6		

**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 CK. BY

3-14-06 DATE MICROPHONE EK-23027-C36 GJP 3-16-06 APP. BY DATE PERFORMANCE SPECIFICATION SHT 2.1 GJP 3-16-06

DATE