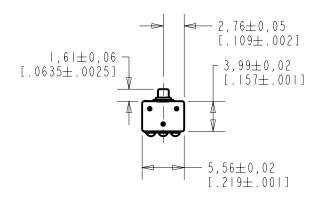
EK-23089-C48

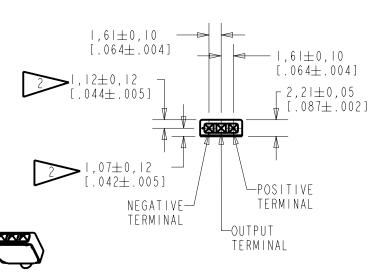
SHT I.I

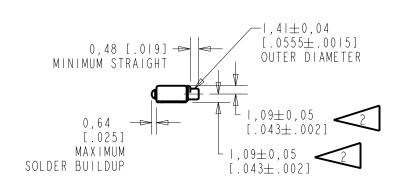


## NOTE

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

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].



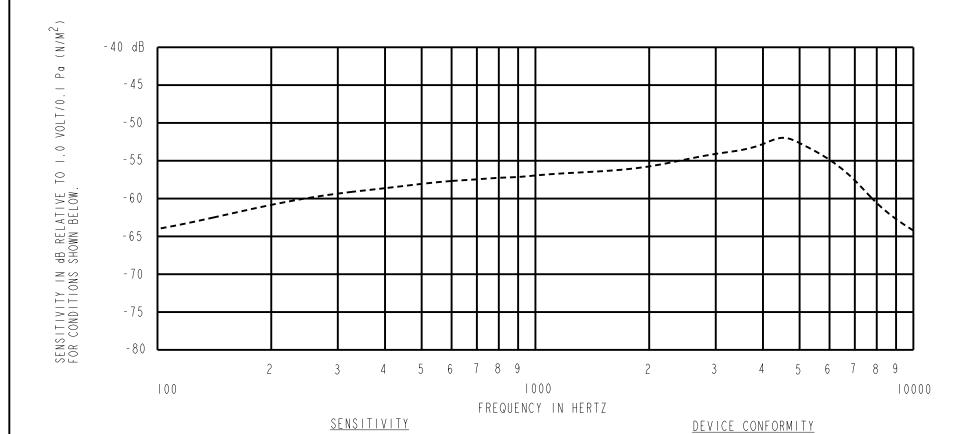


NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

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

l	Revision	C.O. # Implementation Date RELEASE LEVEL				REVISION
	A	M10101309	I - 08 - 07	Release	: d	A
T	SCALE: 2:1					DATE
Ì		[	DO NOT SCALE DRA	WING	SDZ ck. by	1 - 08 - 07 DATE
	TITLE:	MIC	ROPHONE	EK-23089-C48	GJP APP. BY	1 - 1 0 - 0 7 DATE
		OUTL	INE DRAWING	SHT I.I	GJP	1-10-07



MAX.

- - -

-55.0

RANGE OF DEVIATION FROM IKHZ

-4.0

0.0

+7.5

- | | . 0

0.0

+ | . 5

NOM.

-64.0

- 57.0

-52.5

GRADES FOR IKHZ SENSITIVITY WITH 1.3 V SUPPLY AND NO LOAD:

GRADE A: -55.00 TO -57.00

GRADE B: -57.01 TO -59.00

NOTES: I. CASE CONNECTED TO NEGATIVE TERMINAL.

FREQUENCY

3500-5500

100

1000

2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.

MIN.

-59.0

- 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 1000Hz 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 MHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.
- 7. \*CUSTOM SHEET I.I MAY APPLY.
- 8. VL SPEC: 0.15 0.90V

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9 VDC	"A" WEIGHTED NOISE (I KHz EQUIVALENTSPL)	OUTPUT IMPEDANCE OHMS (EACH HALF)			CAPACITANCE ± 50%	
					MIN.	NOM.	MAX.	1 - 2	1 - 3
I.3V	I.3V	50uA MAX.	3 dB MAX.	26.0 dB MAX.	4300	6900	10900	100pF	100pF

## CAPACITANCE PROBE POINTS

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION	
			Released		A	
A	M10101309	I - 08 - 07			• •	
WHEN TEST L	LIMITS ARE US	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE	

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

CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION 1-08-07 SDZ CK. BY DATE 1-10-07 MICROPHONE EK-23089-C48 GJP APP. BY DATE PERFORMANCE SPECIFICATION SHT 2.1

GJP

1-10-07