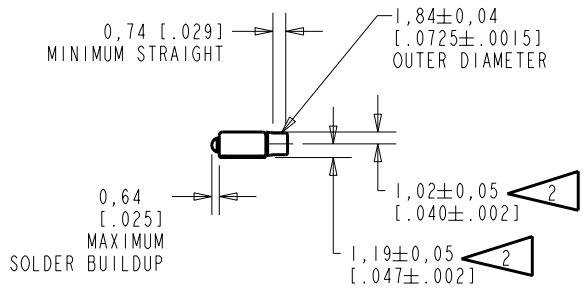
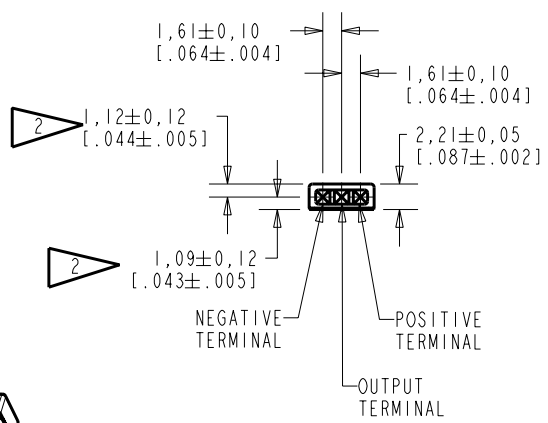
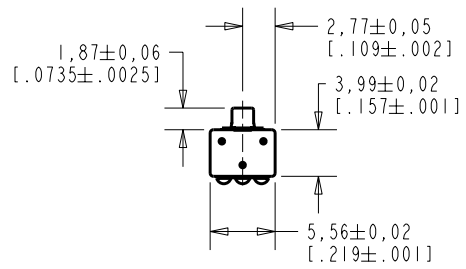


**EK-23133-C01**  
SHT 1.1

NOTE

1. 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].



NOMINAL WEIGHT .13 GRAM DIMENSIONS IN MILLIMETERS [INCHES]

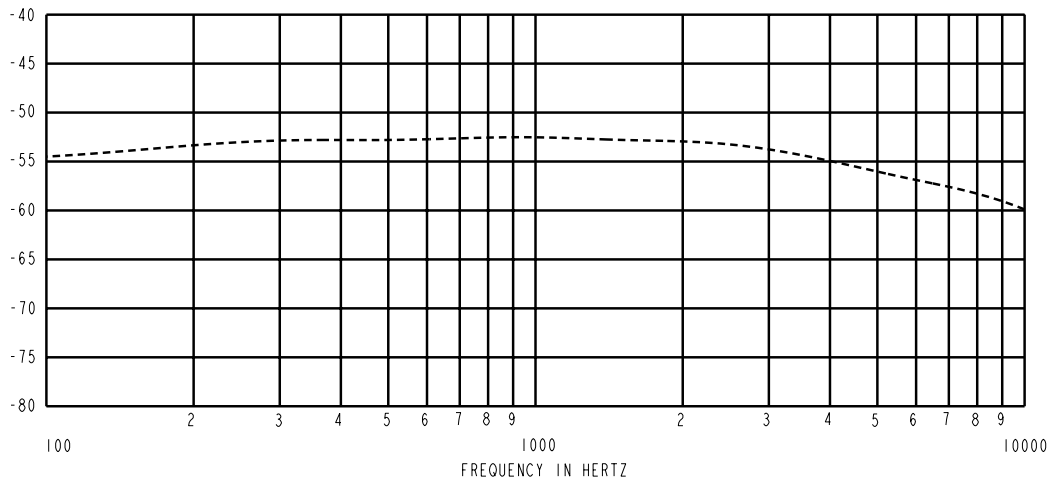
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0101058	3-22-06	Released	A

SCALE:	2:1	DR. BY	DATE
DO NOT SCALE DRAWING		MMM	3-22-06
TITLE:	MICROPHONE	CRG	3-31-06
	OUTLINE DRAWING	APP. BY	DATE
		AB	3-31-06
			Rev: B

KE111ASTZE.FRM

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M<sup>2</sup>)  
FOR CONDITIONS SHOWN BELOW.



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1kHz	
100	---	-54.5	---	-5.0	0.0
1000	-55.0	-53.0	-51.0	0.0	0.0
8000	---	-58.5	---	-8.5	-2.5

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATIONS TEST, EK-PA SHEET 2.2' WITH REF. FREQ. OF 1000 Hz.
- TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.02 dB/%RH.
- SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (1 kHz EQUIV. SPL)	OUTPUT IMPEDANCE OHMS			CAPACITANCE ±50%	
					MIN.	NOM.	MAX.	1-2	1-3
12S	1.3V	50 µA MAX.	3 dB MAX.	26.0 dB MAX.	2800	4400	6800	55pF	55pF

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	M10101058	3-22-06	Released	A

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WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION		DR. BY DATE
TITLE: <b>MICROPHONE</b>		MM 3-22-06
PERFORMANCE SPECIFICATION		CRG 3-31-06
EK-23133-C01		APP. BY DATE
SHT 2.1		AB 3-31-06