

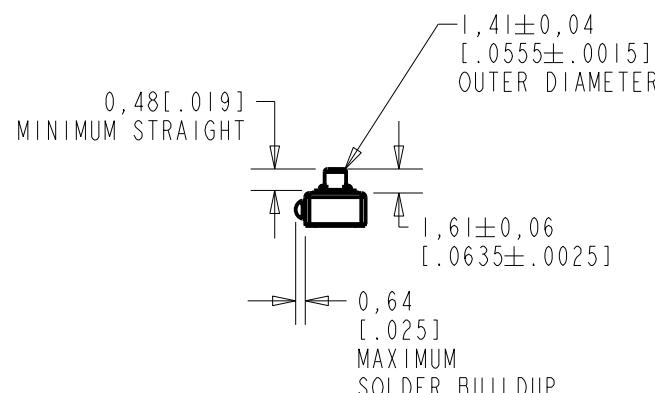
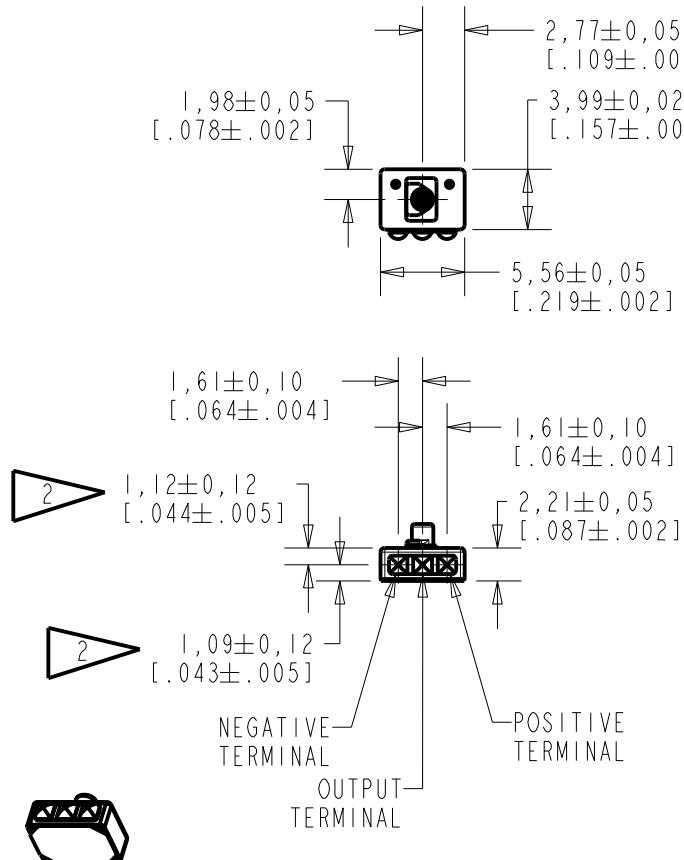
EK-23142-000

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 ± 0.17 [.007].



NOMINAL WEIGHT
.13 GRAM

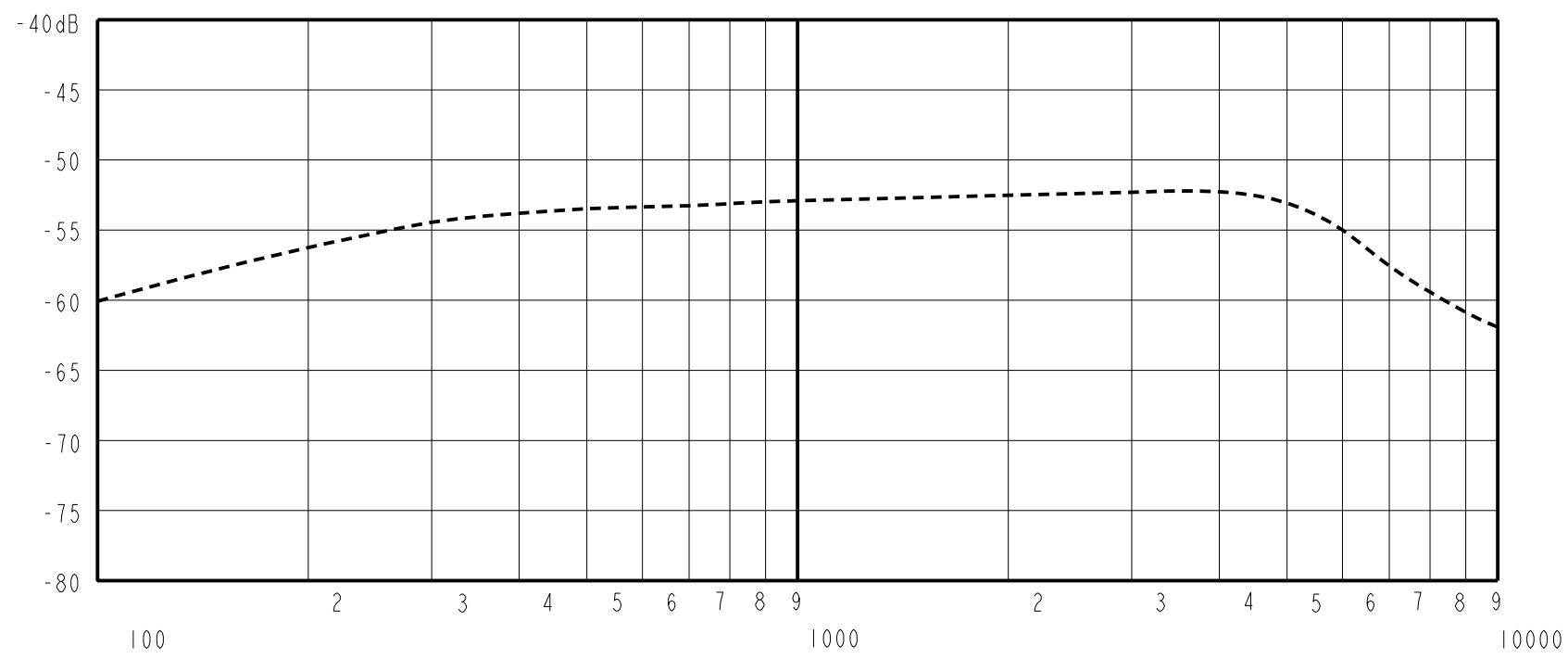
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	M10105324	2-11-14	Active	B
A	M10101546	8-09-07		

SCALE:	2:1	DR. BY	DATE
	DO NOT SCALE DRAWING	LSY	8-9-07
TITLE:	MICROPHONE	CK. BY	DATE
	EK-23142-000	GJP	8-10-07
	OUTLINE DRAWING	APP. BY	DATE
		GJP	8-10-07
	SHT 1.1	KE111ASIZE.FRM	
			Rev: B

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



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY		
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1kHz		
100	---	-60.0	---	-11.0	-4.0	
1000	-55.0	-53.0	-51.0	0.0	0.0	
4500	---	-52.5	---	-3.0	+4.0	

NOTES:

1. 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.

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		
					MIN.	NOM.	MAX.
OKP	1.3V	50 μ A MAX.	3 dB MAX.	26.0 dB MAX.	2800	4400	6800

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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

TITLE:	MICROPHONE	EK-23142-000
PERFORMANCE SPECIFICATION		SHT 2.1

DR. BY	DATE
LSY	8-9-07
CK. BY	DATE
GJP	8-10-07
APP. BY	DATE
GJP	8-10-07

Mouser Electronics

Authorized Distributor

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[EK-23142-000](#)