

EK-25024-C09

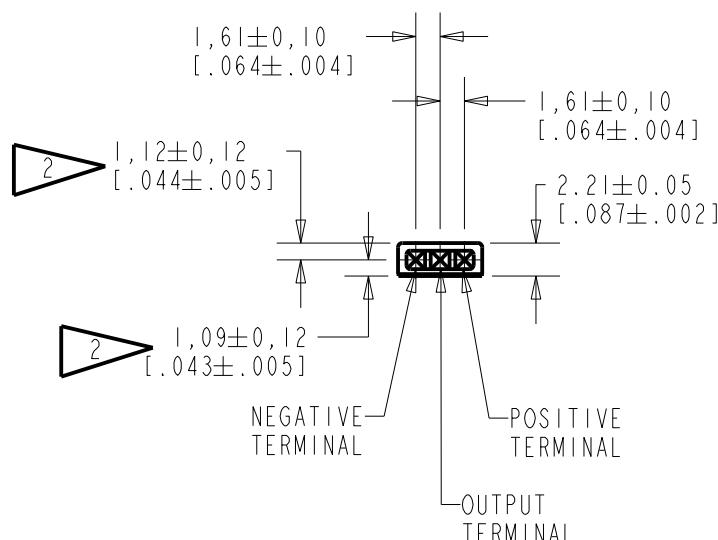
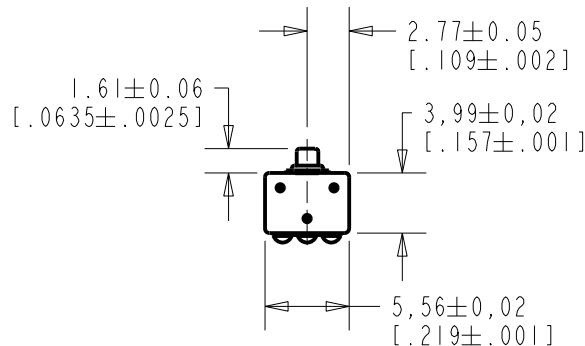
SHT 1.1

NOTE

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



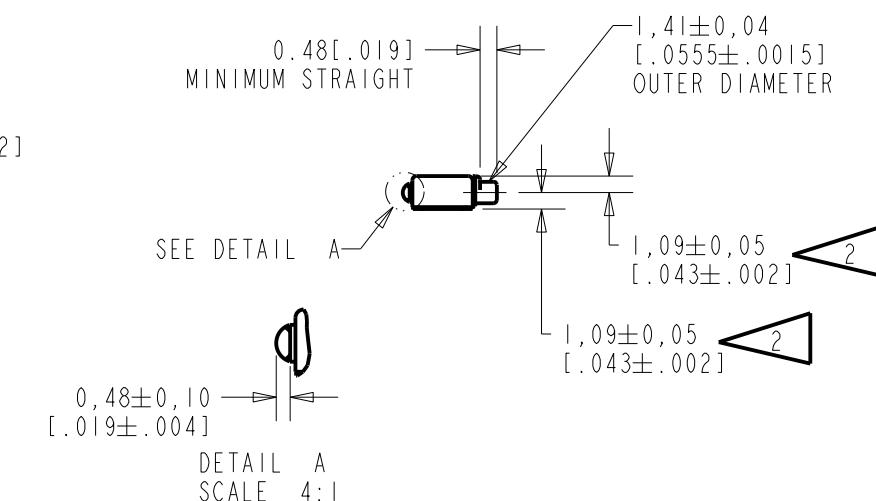
LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ± 0.17 [.007].



NOMINAL WEIGHT
.13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

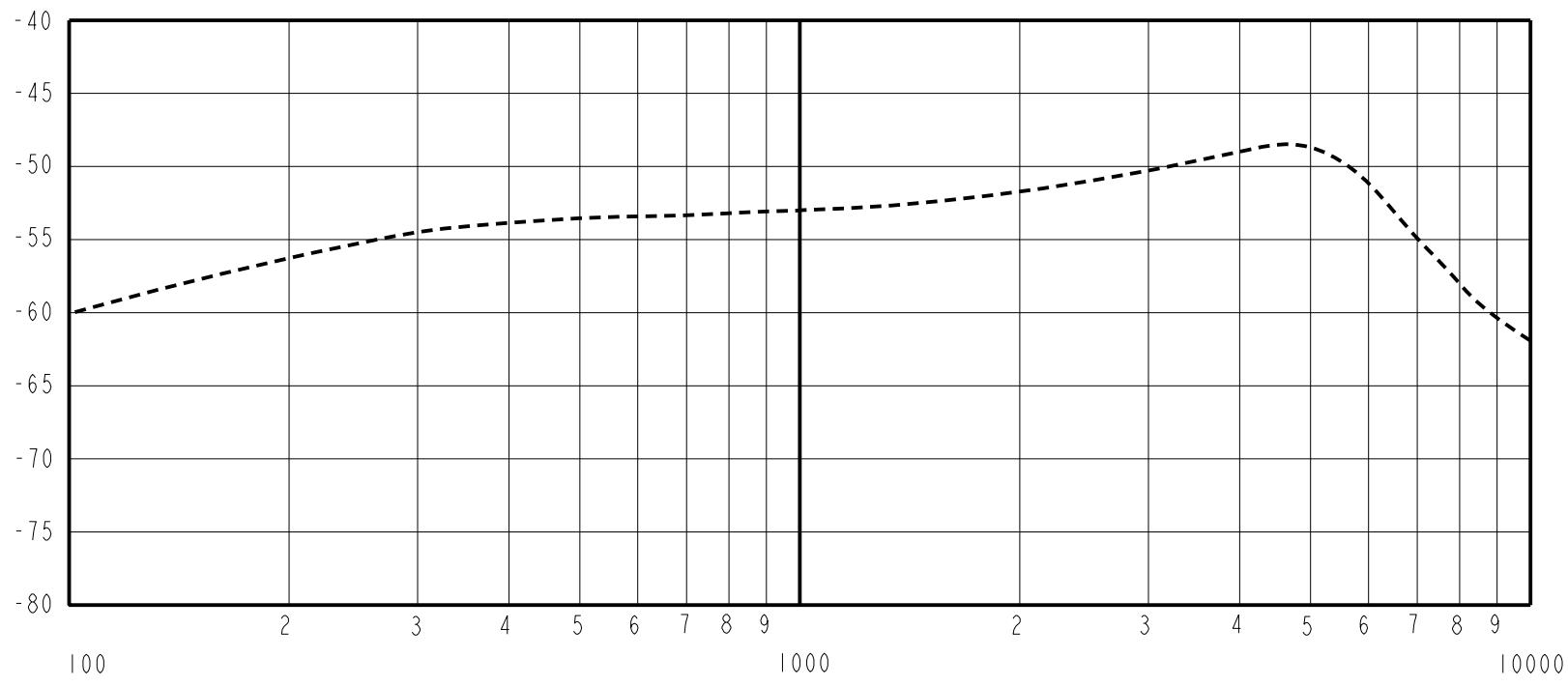
KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.



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-25024-C09	GJP	8-10-07
	OUTLINE DRAWING	APP. BY	DATE
		GJP	8-10-07
		KELIASIZE.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	
3500-5500	---	-48.5	---	+1.5	+7.5	

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.
6. *CUSTOM SHEET 1.1 MAY APPLY.

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (RE 1.0 VOLT)	OUTPUT IMPEDANCE OHMS		
					MIN.	NOM.	MAX.
I2S	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

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

TITLE: MICROPHONE EK-25024-C09
PERFORMANCE SPECIFICATION SHT 2.1

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

Mouser Electronics

Authorized Distributor

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