

EL-23078-000

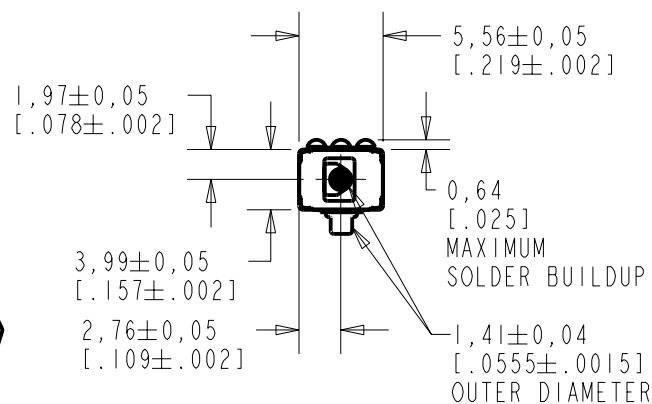
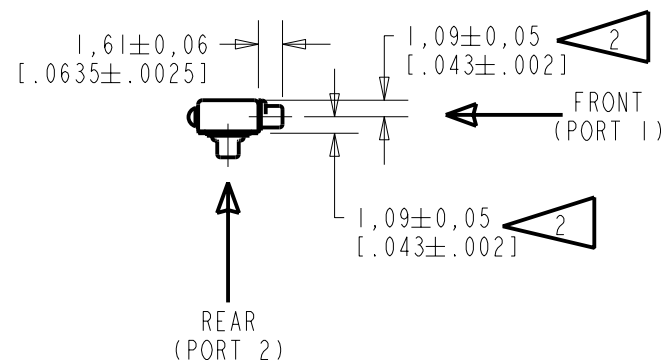
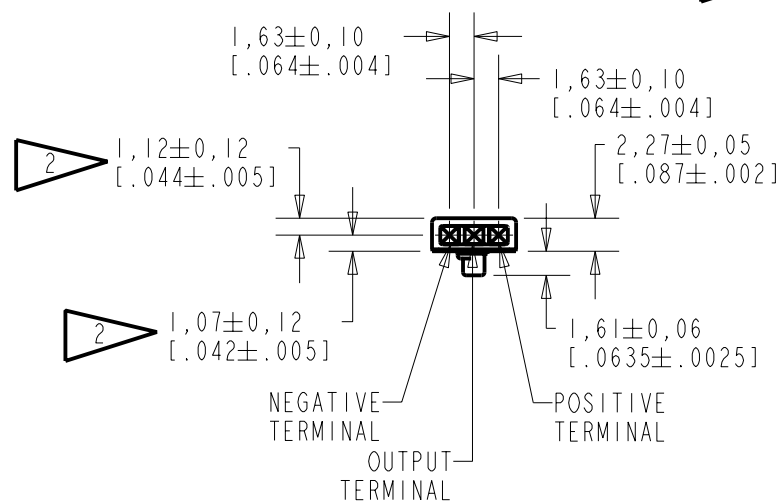
SHT 1.1

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 $\pm 0,17$ [.007].



NOMINAL WEIGHT
.13 GRAM

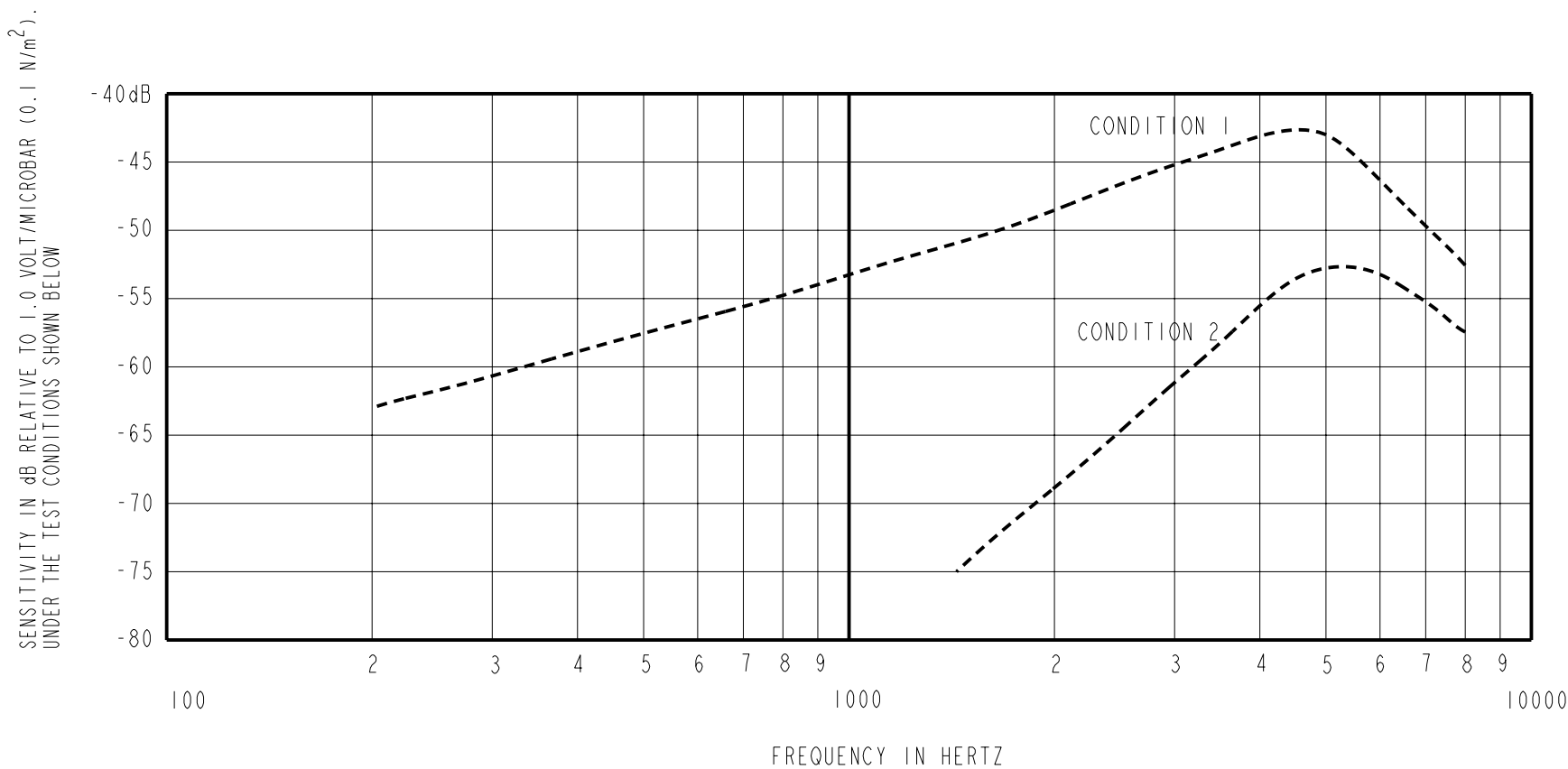
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	A
A	MI0101145	5-17-06		
SCALE: 2:1			DR. BY DATE	
DO NOT SCALE DRAWING			MMM	5-17-06
TITLE: MICROPHONE OUTLINE DRAWING			CK. BY DATE	
			GJP	5-19-06
			APP. BY DATE	
			GJP	5-19-06

KET11ASIZE.FRM

Rev: B



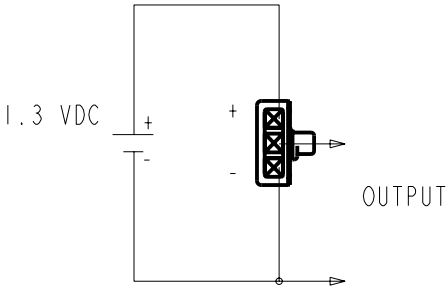
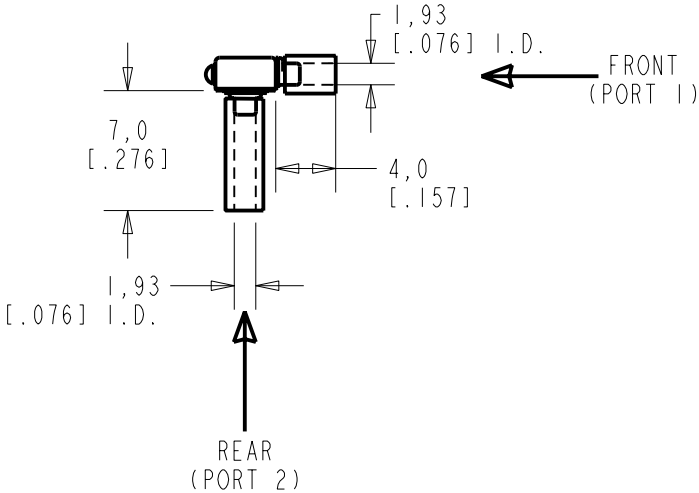
CONDITION 1 SENSITIVITY				DEVICE CONFORMITY		
FREQUENCY	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1 kHz		
				CONDITION 1		CONDITION 2
300	---	-63.0	---	-8.5	-11.5	---
1000	-55.0	-53.0	-51.0	0.0	0.0	-20.0 MIN.
3400-5400	---	-43.0	---	+5.0	+15.0	---

NOTES:

1. MICROPHONE TO BE FUNCTIONAL WITH 10VDC SUPPLY.
2. TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.03 dB/%RH.
3. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
4. CASE CONNECTED TO NEGATIVE TERMINAL.

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, 0K	1.3V	50 μ A MAX	3 dB MAX.	-100.0 dB MAX.	2800	4400	6800

TEST CONDITIONS WITH TUBING AND SIGNALS DESCRIBED BELOW:
DIMENSIONS IN MILLIMETERS [INCHES].



SIGNAL "A" IS A REFERENCE SIGNAL OF 1.0 MICROBAR.
SIGNAL "B" IS A PROBE SIGNAL DELAYED 56.8 MICROSECONDS WITH RESPECT TO SIGNAL "A" AND HAVING 0.981 TIMES THE AMPLITUDE.

FOR CONDITION 1

SIGNAL "A" IS APPLIED TO PORT 1
SIGNAL "B" IS APPLIED TO PORT 2

FOR CONDITION 2

SIGNAL "A" IS APPLIED TO PORT 2
SIGNAL "B" IS APPLIED TO PORT 1

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ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Released		A
A	MI0101145	5-17-06			
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
				MMM	5-17-06
				CK. BY	DATE
				GJP	5-19-06
TITLE: MICROPHONE		EL-23078-000		APP. BY	DATE
				GJP	5-19-06
PERFORMANCE SPECIFICATION		SHT 2.1			

Mouser Electronics

Authorized Distributor

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Knowles:

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