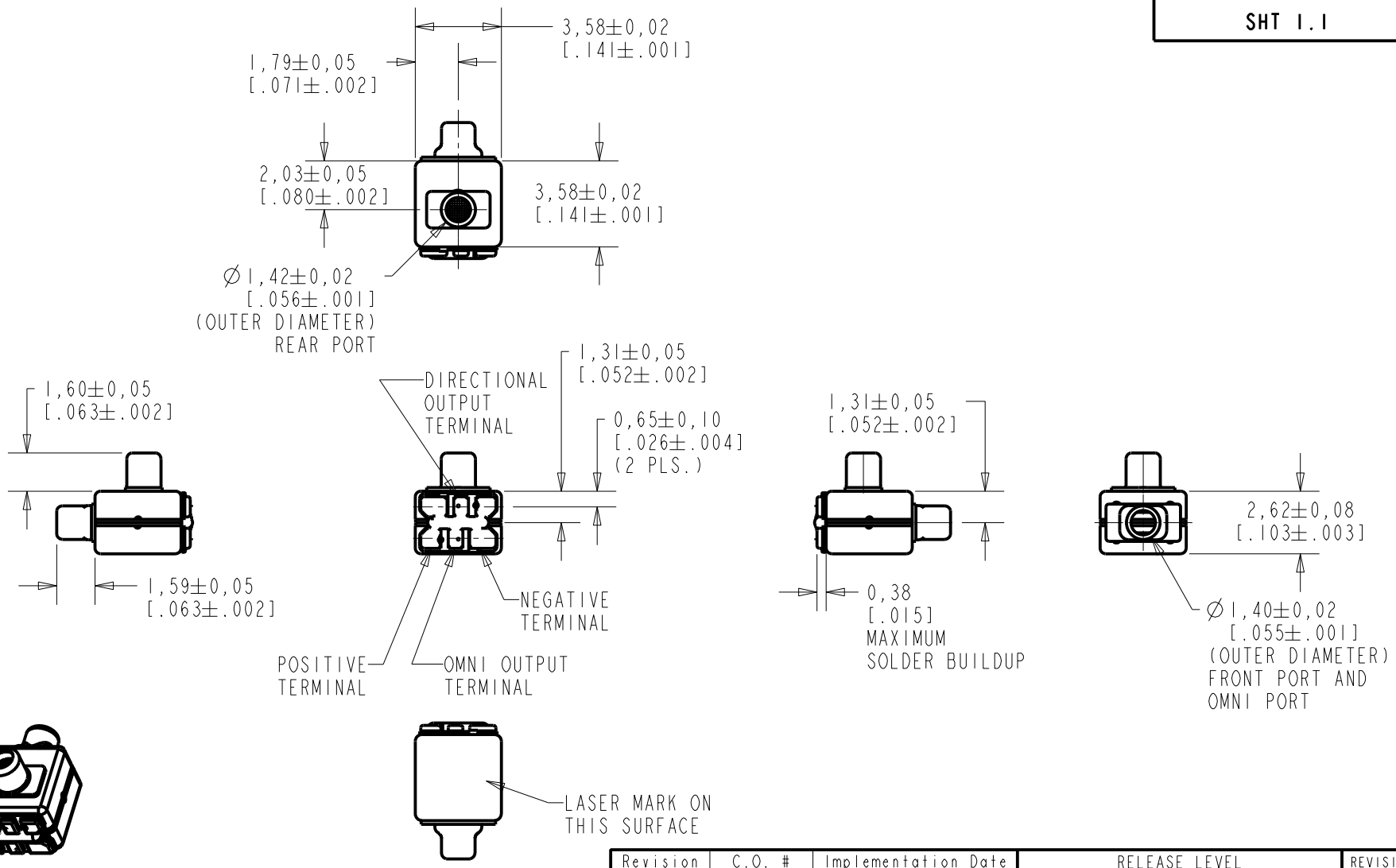
TP-24605-000
SHT 1.1



NOMINAL WEIGHT
.126 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	E
E	M10103591	5-11-10		
D	M10102980	7-30-09		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

SCALE: 4:1

DO NOT SCALE DRAWING

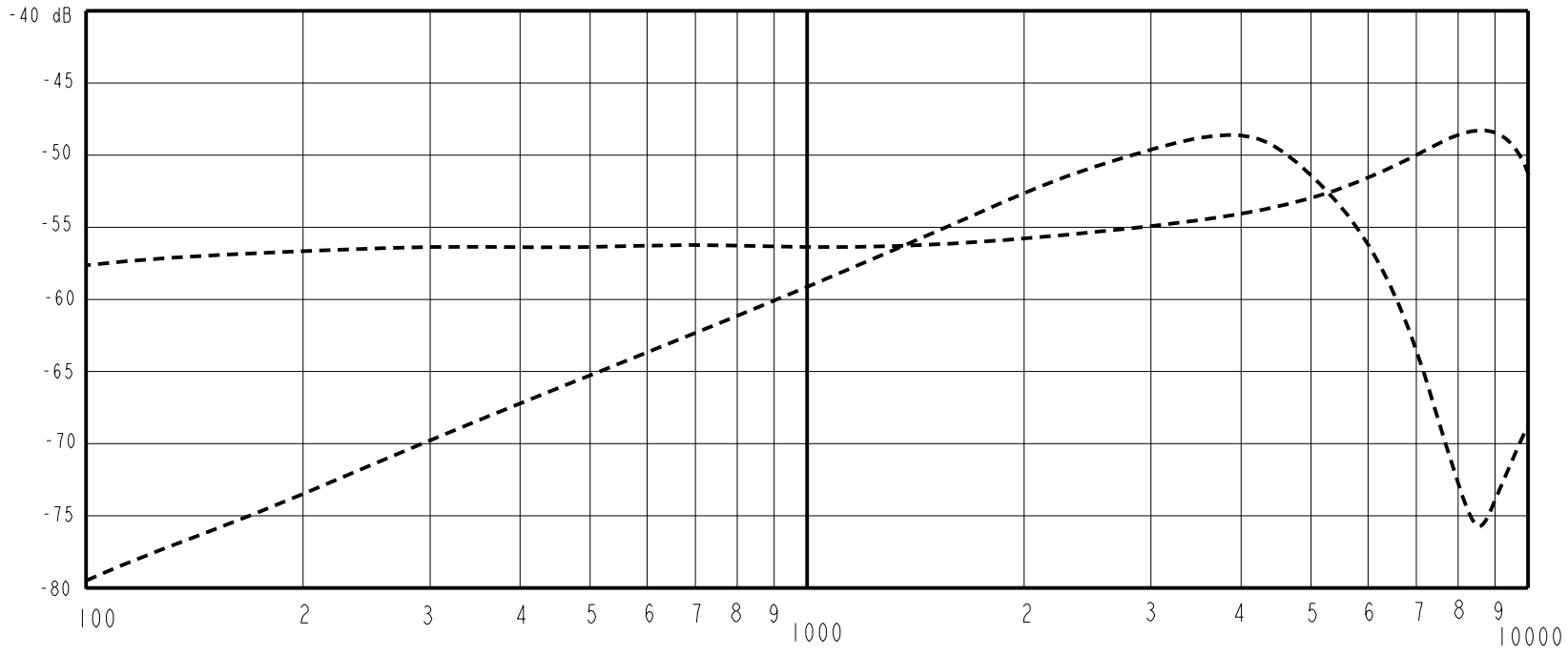
TITLE: MICROPHONE
OUTLINE DRAWING

TP-24605-000
SHT 1.1

DR. BY	DATE
MMM	2-13-06
CK. BY	DATE
GJP	2-15-06
APP. BY	DATE
GJP	2-15-06

KEIIIASIZE.FRM Rev: B

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pu (N/M^2)
FOR CONDITIONS SHOWN BELOW.

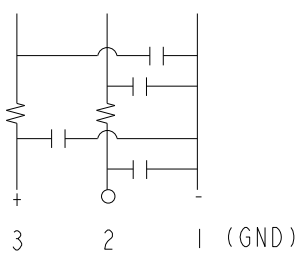


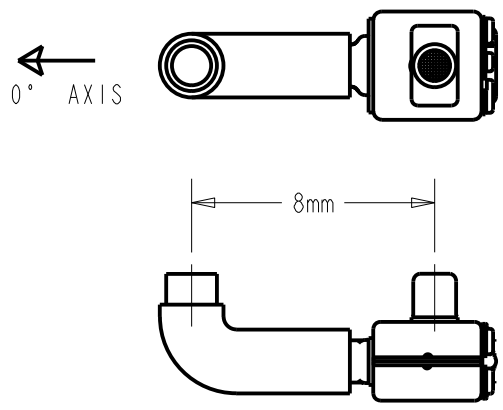
					RANGE OF DEVIATION FROM 1 KHz	
OMNI DIRECTIONAL	100	---	-58.5	---	-5.0	0.0
	1000	-59.5	-56.5	-53.5	0.0	0.0
	~8500	---	-49.0	---	4.0	+10.0
SENSITIVITY AT 1 KHz DIRECTIONAL re OMNIDIRECTIONAL					-0.5 dB	-4.5 dB
DIRECTIONAL 0° ON AXIS	300	---	-69.0	---	-13.5	-7.5
	1000	-62.0	-59.0	-56.0	0.0	0.0
	~4000	---	-48.5	---	+7.5	+13.5
INTERNAL DELAY		8.0uS	11.0uS	14.0uS		

NOTES:
1. CASE CONNECTED TO NEGATIVE TERMINAL.
2. MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.
3. TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.03 dB/%RH (OMNI), 0.07 dB/%RH (DIRECTIONAL).
4. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
5. 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.
6. MICROPHONE TESTED WITH RIGHT ANGLE TUBE 1mm INTERNAL DIAMETER GIVING A PORT SPACING OF 8.0 mm (SEE DIAGRAM).

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	OMNIDIRECTIONAL "A" WEIGHTED NOISE (1 kHz EQUIV. SPL)	DIRECTIONAL	OUTPUT IMPEDANCE OHMS (EACH HALF)			CAPACITANCE ±50%	
						MIN.	NOM.	MAX.	1-2 HALF	1-3 BOTH
12S, 12K	1.3V	100 µA MAX. FOR PAIR	3 dB MAX.	29.0 MAX.	-96.0 dB MAX. re MAX. re 1V	2800	4400	6800	13pF	26pF

CAPACITANCE PROBE POINTS





SCALE 4:1

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	E
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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
PERFORMANCE SPECIFICATION

TP-24605-000
SHT 2.1

DR. BY	DATE
MMM	2-13-06
CK. BY	DATE
GJP	2-15-06
APP. BY	DATE
GJP	2-15-06

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