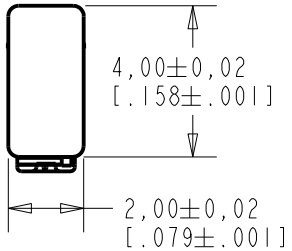
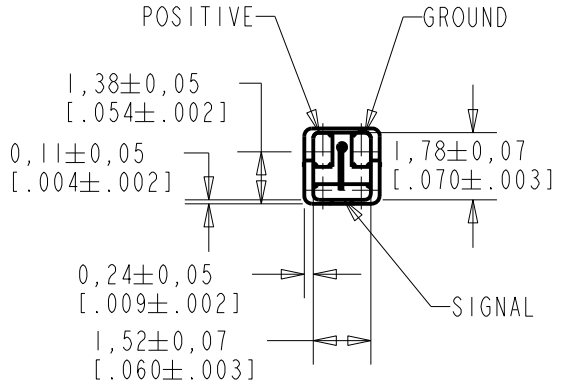
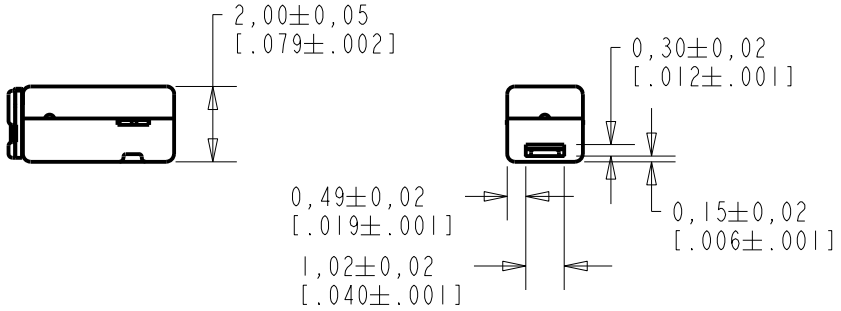
CA38-30775-000
SHT 1.1

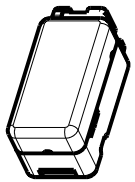


NOTES:

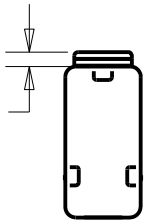
1. INCREASED PRESSURE AT SOUND INLET CAUSES A POSITVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.







NOMINAL WEIGHT
.052 GRAMS



DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	M10104290	8-10-11		

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ITASCA, ILLINOIS U.S.A.

SCALE: 5:1

DO NOT SCALE DRAWING

TITLE: MICROPHONE
OUTLINE DRAWING

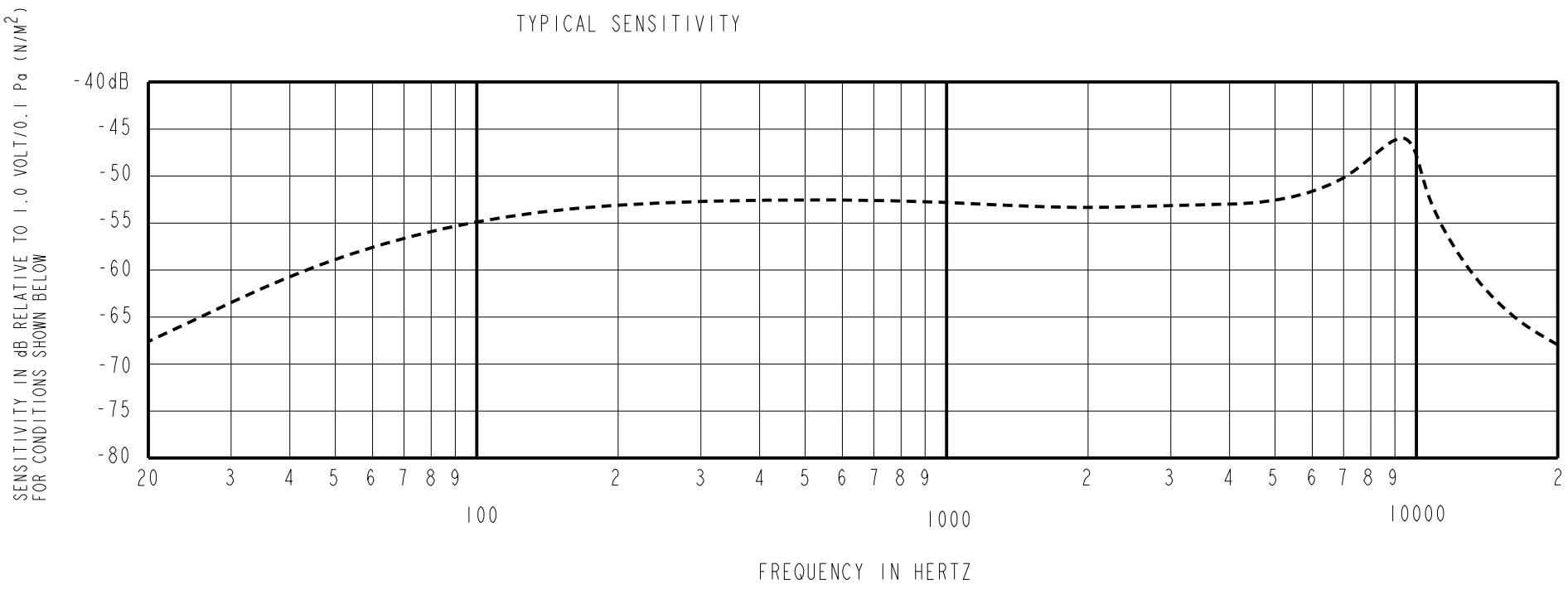
CA38-30775-000
SHT 1.1

DR. BY	DATE
LSY	7-27-10
CK. BY	DATE
GJP	7-28-10
APP. BY	DATE
GJP	7-28-10

KEIIIASIZE.FRM Rev: B

RoHS COMPLIANT

TYPICAL SENSITIVITY



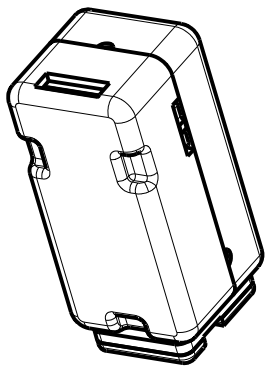
SENSITIVITY MEASURED IN A PRESSURE CAVITY UNDER THE NOMINAL CONDITIONS SHOWN BELOW

POWER REQUIREMENT					
PARAMETER	UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
SUPPLY VOLTAGE RANGE	VDC	0.9	0.9	1.6	-

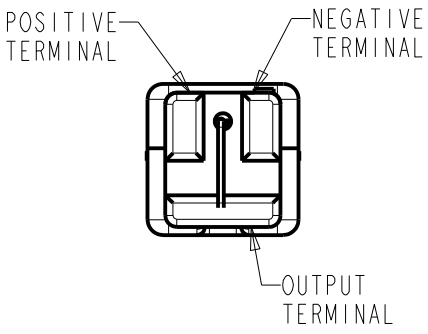
PERFORMANCE						
PARAMETERS		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
SENSITIVITY	80 Hz	dB	-5.0	-3.0	-1.0	re SENSITIVITY AT 1 kHz
	1000 Hz	dB	-56.0	-53.0	-50.0	dB re 1V/0.1Pa
	8000-11000 Hz	dB	+3.0	+6.0	+9.0	re SENSITIVITY AT 1 kHz
CURRENT DRAIN		µA	-	22.0	29.0	-
OUTPUT LOAD VOLTAGE		V_L	0.28	0.43	0.58	OPEN LOAD
A-WEIGHTED NOISE		dB SPL	-	25.0	27.0	INPUT REFERRED NOISE re SENSITIVITY AT 1kHz
OUTPUT IMPEDANCE		Ohms	2800	4400	6800	

NOTES: 1. CASE CONNECTED TO NEGATIVE TERMINAL.

2. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID WHEN TESTED AT 909 KOhm//<1500pF LOAD IMPEDANCE. TYPICAL TEST ENVIRONMENT: 50% RH, 21°C (70°F)



PORT LOCATION: 12N



TERMINAL DEFINITION

CENTER LASER MARKING

NNN IS THE MODEL NUMBER CODE
PP IS THE PRODUCTION WEEK (01-52)
Y IS THE PRODUCTION YEAR (0-9)
LLLLL IS THE LOT NUMBER
SS IS THE SUB-LOT NUMBER (01-99)
+ IS THE POSITIVE TERMINAL FOR PAIRS
>>> IS THE LEADING/LAGGING INDICATOR FOR PAIRS
ZZZ IS A SERIAL NUMBER FOR ENGINEERING SAMPLES

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	M10104290	8-10-11		

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
LSY	7-27-10
CK. BY	DATE
GJP	7-28-10
APP. BY	DATE
GJP	7-28-10

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TITLE: MICROPHONE
PERFORMANCE SPECIFICATION

CA38-30775-000
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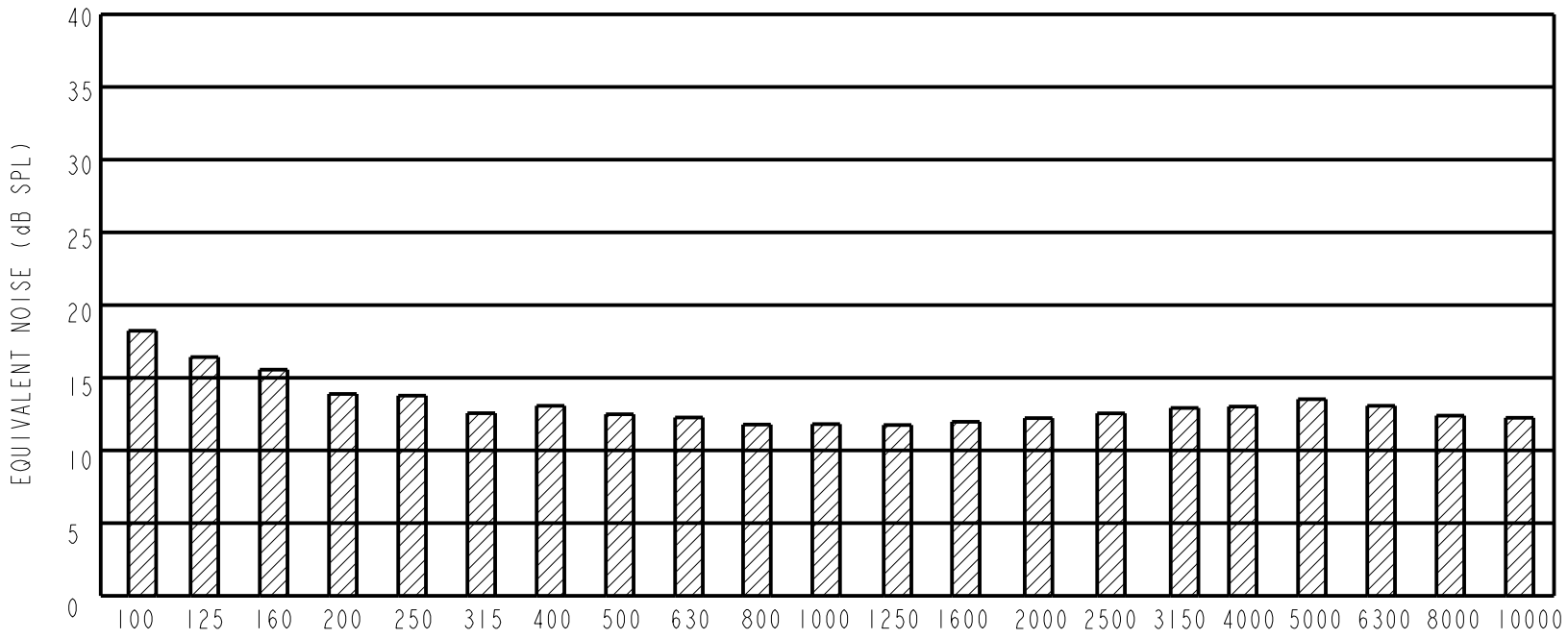
A) 1/3 OCTAVE INPUT REFERRED NOISE



B) PERFORMANCE

PERFORMANCE						
PARAMETERS		UNIT	MINIMUM	TYPICAL	MAXIMUM	REMARKS
POWER SUPPLY REJECTION RATIO (PSRR)	1000 Hz	dB	-	-36	-18	SUPPLY VOLTAGE @ 0.9 VDC
INPUT REFERRED VIBRATION SENSITIVITY	1000 Hz	dB SPL	-	-	60	BLOCKED PORT; 1g ACCELERATION
HUMIDITY COEFFICIENT	1000 Hz	dB		0.03		PER %RH
TEMPERATURE RANGE	OPERATION	°C (°F)	-17 (1.4)	-	63 (145.4)	CELSIUS (FAHRENHEIT)
	STORAGE	°C (°F)	-40 (-40)	-	63 (145.4)	CELSIUS (FAHRENHEIT)
ESD TOLERANCE	MIL-STD-750 CLASS 2 RATING EOS/ESD-S5.1-1993 CLASS 2 RATING					

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	M10104290	8-10-11		

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
LSY	7-27-10
CK. BY	DATE
GJP	7-28-10
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KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

TITLE: MICROPHONE
PERFORMANCE SPECIFICATION

CA38-30775-000
SHT 2.2