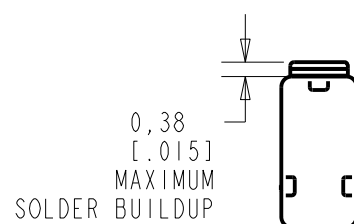
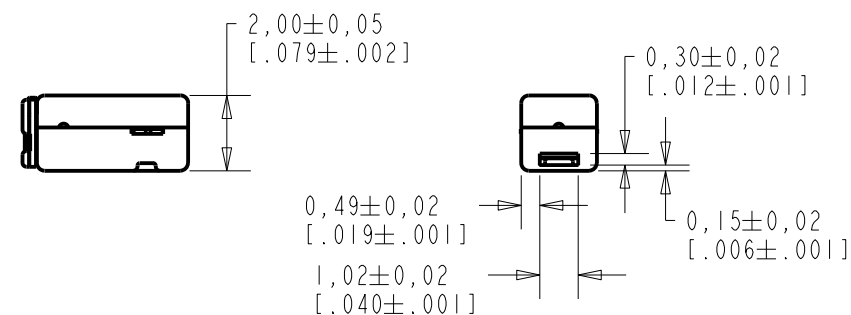
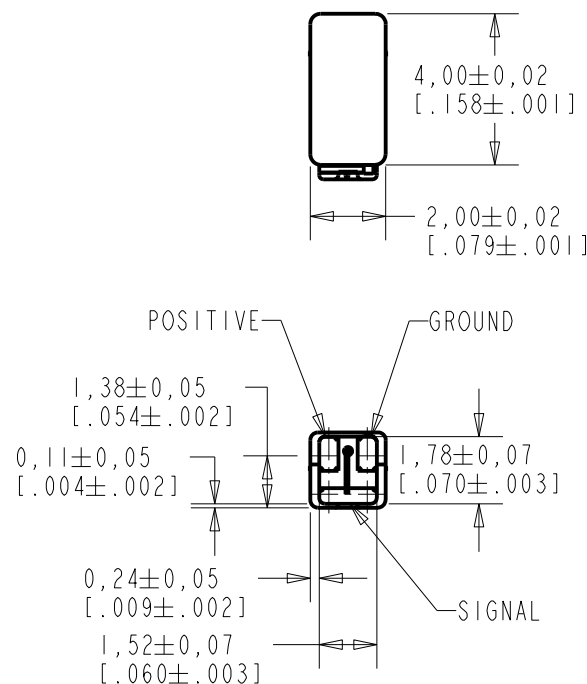


CA38-30775-000
SHT 1.1

NOTES:

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



NOMINAL WEIGHT
.052 GRAMS

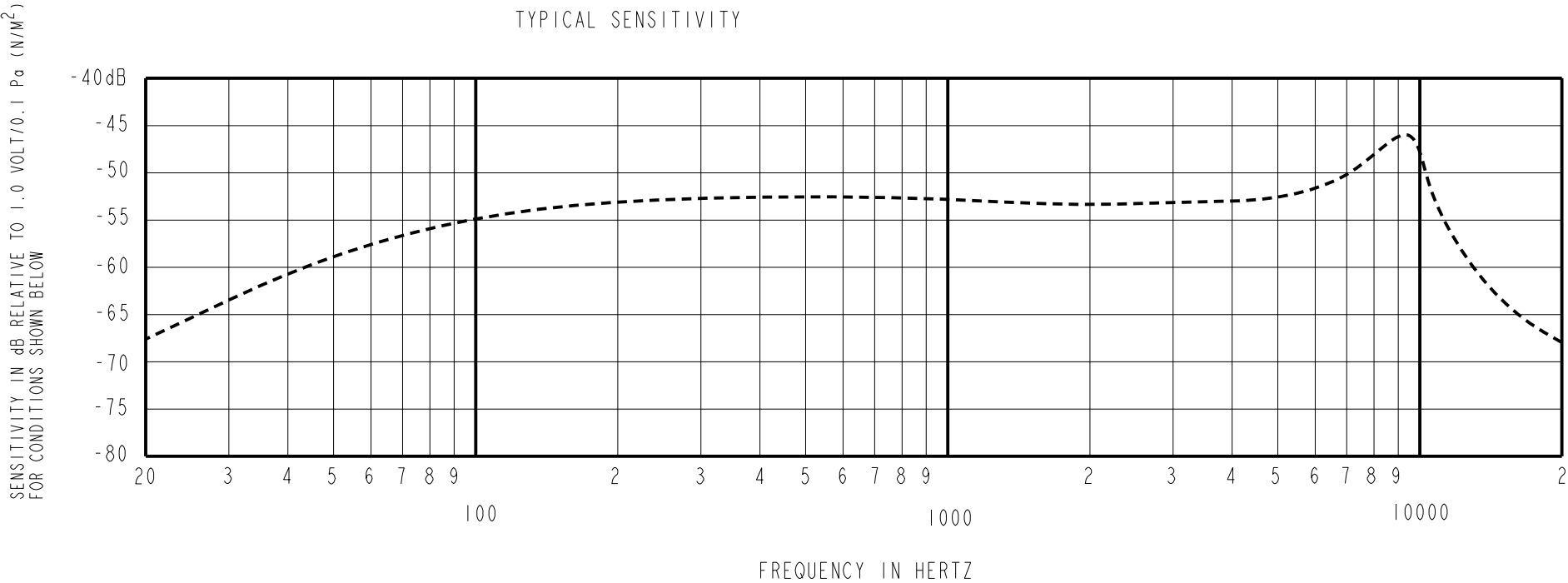
DIMENSIONS IN MILLIMETERS [INCHES]

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	MI0104290	8-10-11		
SCALE: 5:1			DR. BY	DATE
DO NOT SCALE DRAWING			LSY	7-27-10
			CK. BY	DATE
TITLE: MICROPHONE			GJP	7-28-10
			APP. BY	DATE
OUTLINE DRAWING			GJP	7-28-10
CA38-30775-000			Rev: B	
SHT 1.1				

RoHS COMPLIANT

TYPICAL SENSITIVITY



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

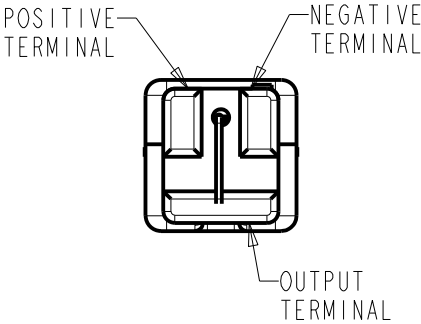
POWER REQUIREMENT						
PARAMETER		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
SUPPLY VOLTAGE RANGE		VDC	0.9	0.9	1.6	-

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)

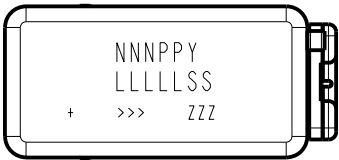


PORT LOCATION: 12N



TERMINAL DEFINITION

CENTER LASER MARKING



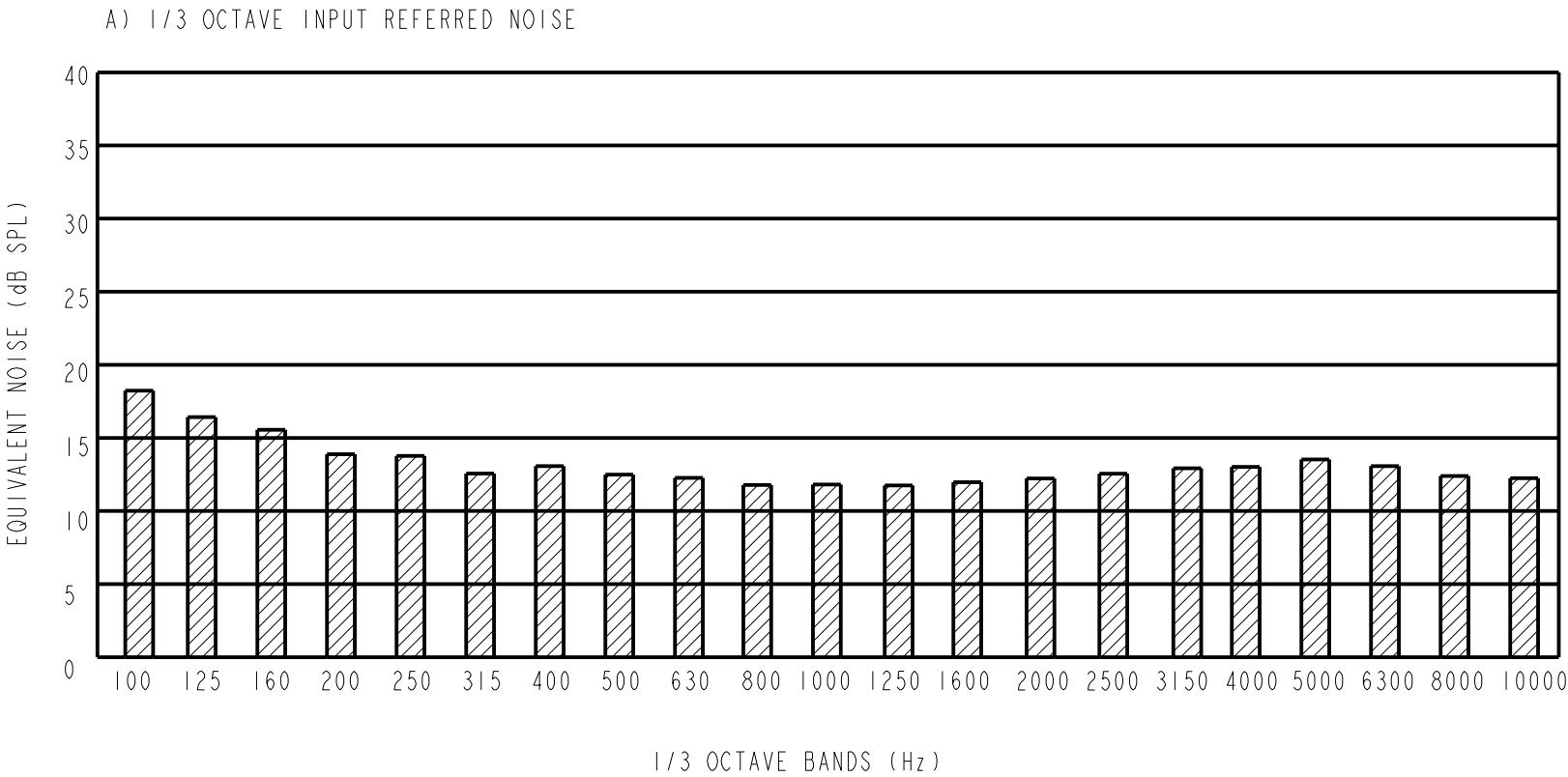
NNN IS THE MODEL NUMBER CODE
PP IS THE PRODUCTION WEEK (01-52)
Y IS THE PRODUCTION YEAR (0-9)
LLLLL IS THE LOT NUMBER
SS IS THE SUB-LOT NUMBER (01-99)
+ IS THE POSITIVE TERMINAL FOR PAIRS
>>> IS THE LEADING/LAGGING INDICATOR FOR PAIRS
ZZZ IS A SERIAL NUMBER FOR ENGINEERING SAMPLES

KNOWLES RESERVES THE RIGHT TO MAKE CHANGES TO IMPROVE RELIABILITY AND PERFORMANCE OF THE PRODUCT.

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Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Active		D
D	MI0104290	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
TITLE: MICROPHONE		GA38-30775-000		GJP	7-28-10
				APP. BY	DATE
				GJP	7-28-10
PERFORMANCE SPECIFICATION		SHT 2.1			

CA38-30775-000
SHT 2.1



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					

KNOWLES RESERVES THE RIGHT TO MAKE CHANGES TO IMPROVE RELIABILITY AND PERFORMANCE OF THE PRODUCT.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Active		D
D	MI0104290	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 LSY	DATE 7-27-10
TITLE: MICROPHONE PERFORMANCE SPECIFICATION				CK. BY GJP	DATE 7-28-10
				APP. BY GJP	DATE 7-28-10
				CA38-30775-000 SHT 2.2	

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