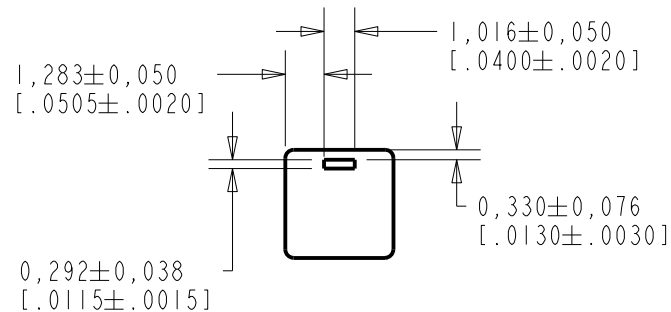
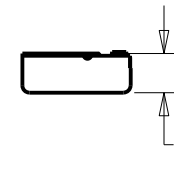
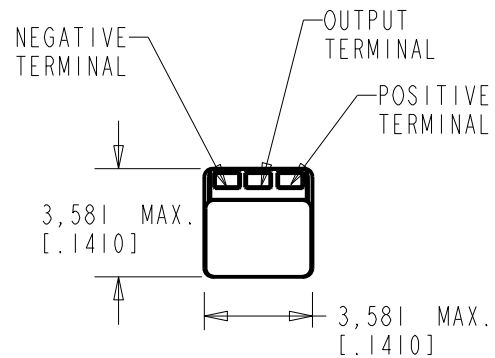


T038-31018-B20

SHT 1.1

NOTE:

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

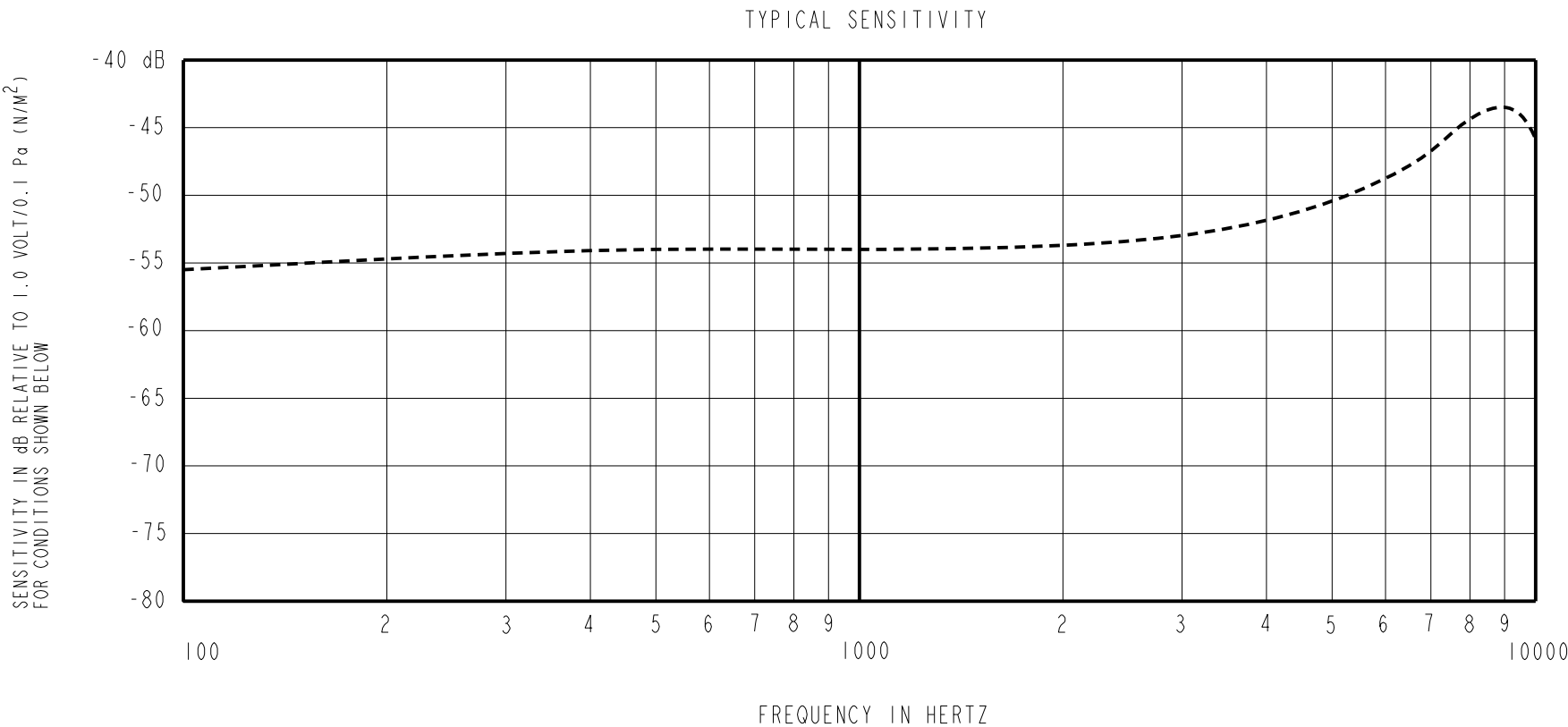


NOMINAL WEIGHT
.063 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

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Revision		C.O. #	Implementation Date	RELEASE LEVEL		REVISION
H		MI0105727	10-27-14	Active		H
G		MI0105480	4-28-14			
SCALE: 4:1						DR. BY DATE
DO NOT SCALE DRAWING						SDZ 12-18-09
						CK. BY DATE
TITLE: MICROPHONE OUTLINE DRAWING				T038-31018-B20 SHT 1.1		GJP 12-29-09
						APP. BY DATE
						GJP 12-29-09

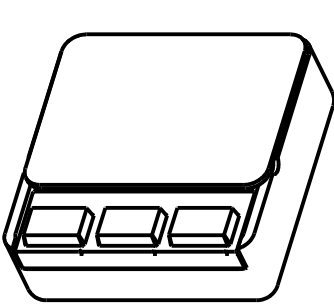


SENSITIVITY MEASURED IN A PRESSURE CAVITY UNDER THE NOMINAL CONDITIONS SHOWN BELOW

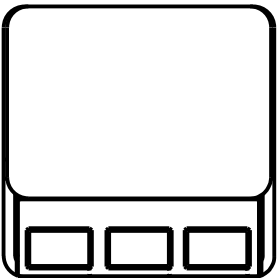
POWER REQUIREMENT					
PARAMETER	UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
DC POWER SUPPLY	VDC	0.9	0.9	1.6	-

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	-57.0	-54.0	-51.0	dB re 1V/0.1Pa
	8000-10000 Hz	dB	+7.5	+10.5	+13.5	re SENSITIVITY AT 1 kHz
AMPLIFIER CURRENT DRAIN		μA	-	22	29	-
OUTPUT LOAD VOLTAGE		V _L	0.20	0.45	0.90	OPEN LOAD
A-WEIGHTED NOISE		dB SPL	-	25.0	26.5	INPUT REFERRED NOISE re SENSITIVITY AT 1kHz TESTED WITH SUPPLY VOLTAGE=1.3 VDC
OUTPUT IMPEDANCE		Ohms	2750	4400	6750	

- NOTES: 1. CASE CONNECTED TO NEGATIVE TERMINAL.
2. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID WHEN TESTED WITH 909KOhm//<1500pF LOAD IMPEDANCE TYPICAL TEST ENVIRONMENT:50% RH, 21°C(70°F)



PORT LOCATION:12Kn



POSITIVE OUTPUT NEGATIVE
TERMINAL TERMINAL TERMINAL

TERMINAL DEFINITION

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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
H	MI0105727	10-27-14	Active	H
G	MI0105480	4-28-14		
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
TITLE: MICROPHONE PERFORMANCE SPECIFICATION			SDZ	12-18-09
			CK. BY	DATE
			GJP	12-29-09
			APP. BY	DATE
			GJP	12-29-09

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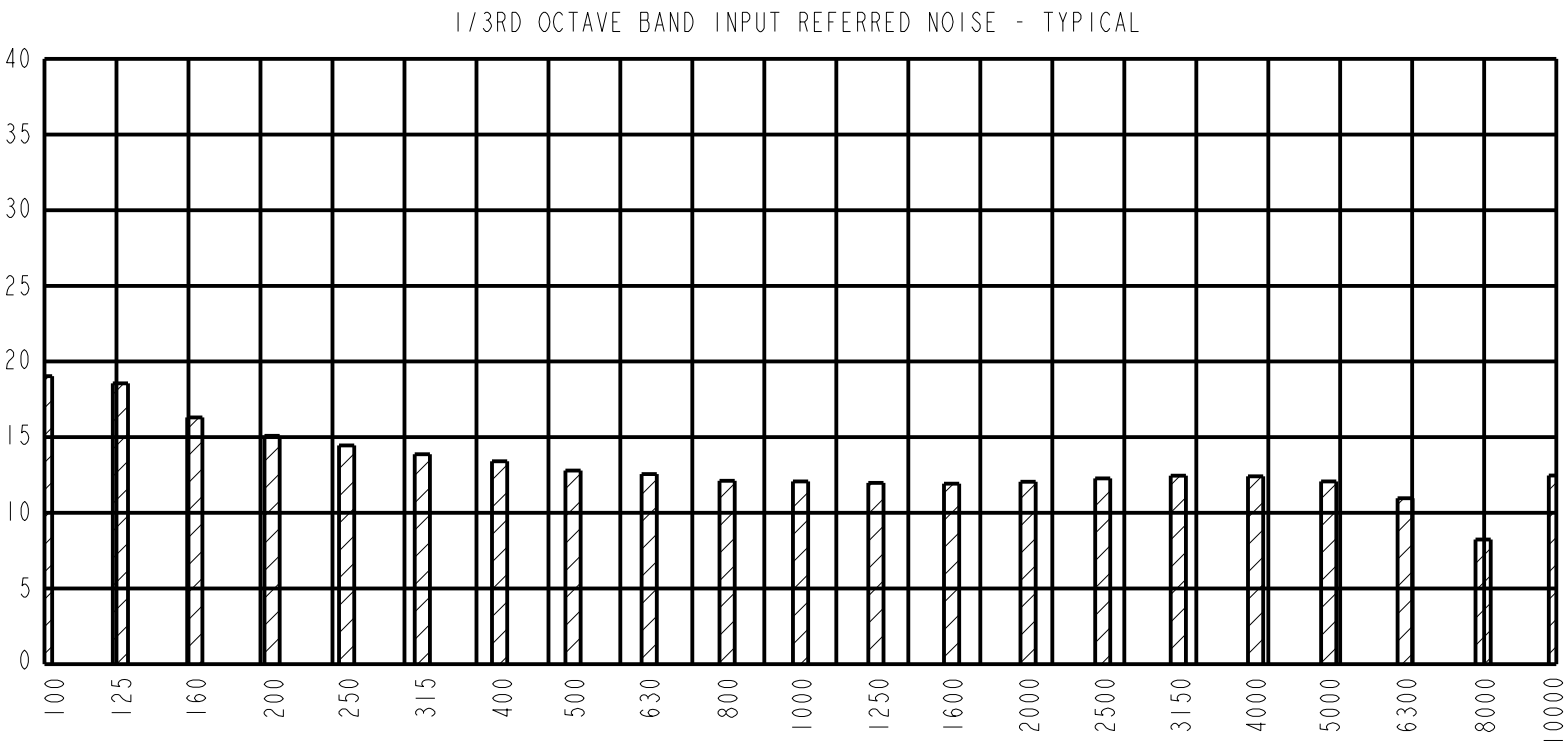
T038-31018-B20
SHT 2.1

PERFORMANCE INFORMATION IN THIS SHEET IS ONLY FOR REFERENCE PURPOSE

T038-31018-B20

SHEET 2.2

RoHS COMPLIANT



PERFORMANCE						
PARAMETERS		UNIT	MINIMUM	NOMINAL	MAXIMUM	REMARKS
POWER SUPPLY REJECTION RATIO (PSRR)	1000 Hz	dB	-	-36	-18	SUPPLY VOLTAGE = 0.9VDC
INPUT REFERRED VIBRATION	1000 Hz	dB SPL	-	62	70	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					

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Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
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TITLE: MICROPHONE PERFORMANCE SPECIFICATION			CK. BY DATE		GJP 12-29-09
			APP. BY DATE		GJP 12-29-09
			T038-31018-B20		
			SHT 2.2		

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