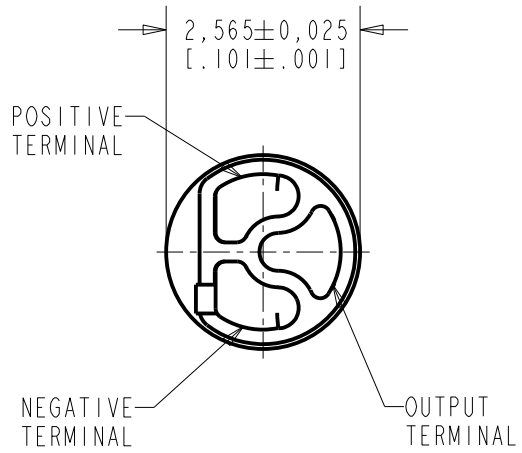
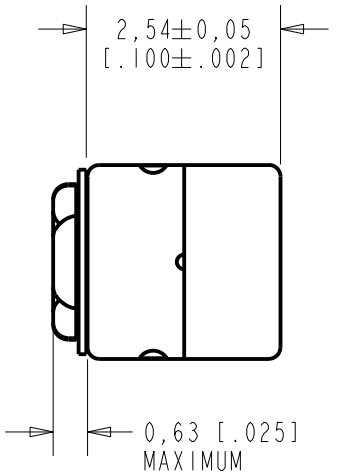
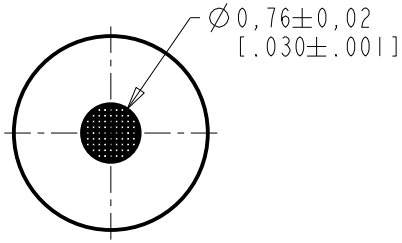
FC-26163-000
SHT 1.1

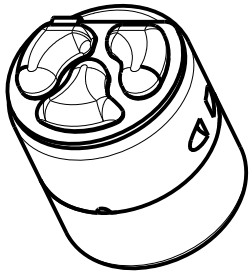
NOTES:

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









DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	G
G	M10105709	10-11-14		

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

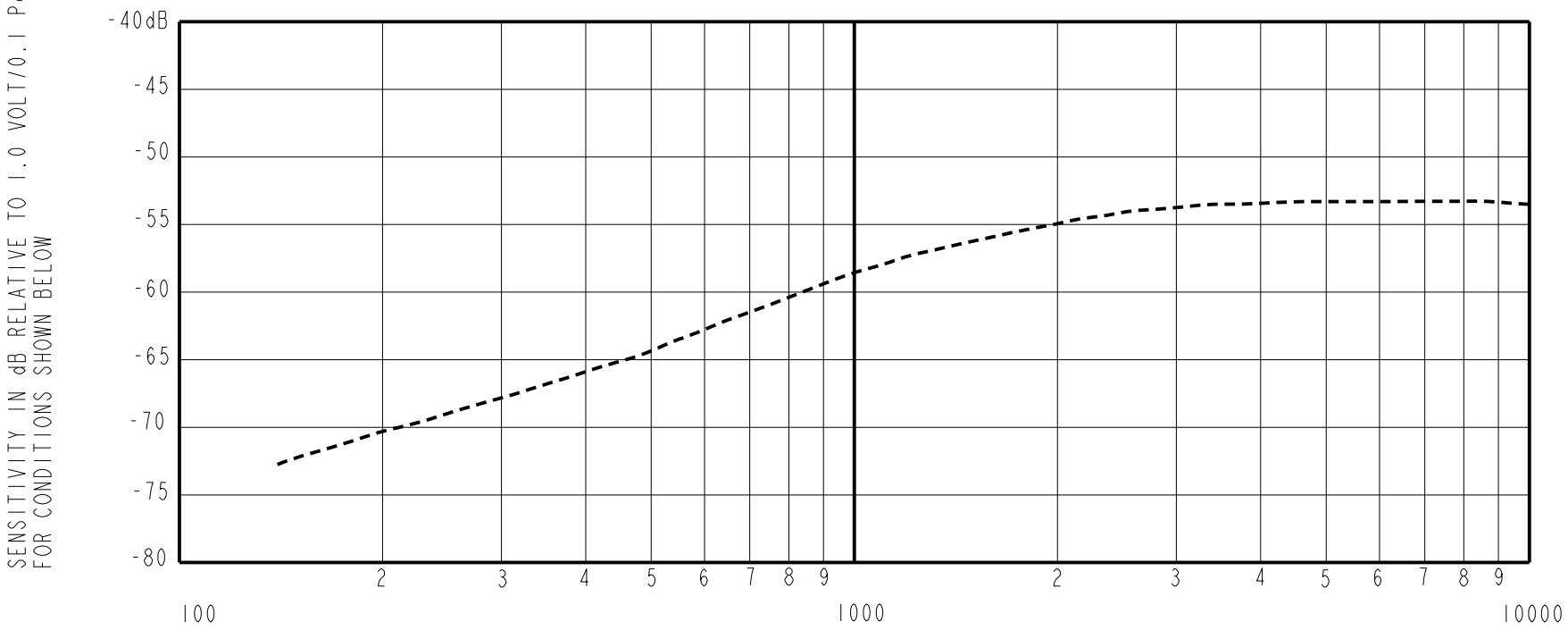
SCALE: 10:1

DO NOT SCALE DRAWING

TITLE: MICROPHONE
OUTLINE DRAWING

FC-26163-000
SHT 1.1

DR. BY	DATE
MMM	3-6-06
CK. BY	DATE
GJP	3-8-06
APP. BY	DATE
GJP	3-8-06



FREQUENCY	SENSITIVITY MIN.	SENSITIVITY NOM.	SENSITIVITY MAX.	DEVICE CONFORMITY RANGE OF DEVIATION FROM 3.5 kHz	
500	---	-64.5	---	-14.0	-8.0
1000	---	-58.5	---	-9.0	-1.0
3500	-56.5	-53.5	-50.5	0.0	0.0
10000	---	-53.5	---	-3.0	+3.0

NOTES: 1. CASE CONNECTED TO NEGATIVE TERMINAL.

2. MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.

3. TYPICAL SENSITIVITY TO HUMIDITY AT 3500Hz IS 0.06 dB/%RH

4. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.

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	1.3V	50 µA MAX.	3 dB MAX.	-93.0 dB MAX.	2800	4400	6800

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	G
G	M10105709	10-11-14		

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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

FC-26163-000
SHT 2.1

DR. BY	DATE
MMM	3-6-06
CK. BY	DATE
GJP	3-8-06
APP. BY	DATE
GJP	3-8-06