

MR-33378-000

SHT 1.1

0,939±0,101  
[.0370±.0040]

2,300±0,101  
[.0906±.0040]

7,595  
[.2990]  
MAX.

∅ 18,974±0,101  
[.7470±.0040]

∅ 16,385±0,125  
[.6451±.0050]

∅ 22,098±0,101  
[.8700±.0040]

202,057±4,953  
[7.9550±.1950]

ORIENTATION OF HOLE  
PATTERN NOT FIXED

NOTE:

RESISTANCE OF  
100 KILO OHM  
MINIMUM BETWEEN  
BLACK -ve LEAD  
AND FRONT HOUSING

RED +ve

BLACK -ve

WHITE OUTPUT

NOMINAL WEIGHT  
3.05 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	MI0107503	8-17-17	Active	B
A	MI0107237	4-13-17		

SCALE: 1:1

DO NOT SCALE DRAWING

DR. BY DATE

NANC 4-13-17

CK. BY DATE

GJP 4-13-17

APP. BY DATE

GJP 4-13-17

TITLE: WATERPROOF MICROPHONE

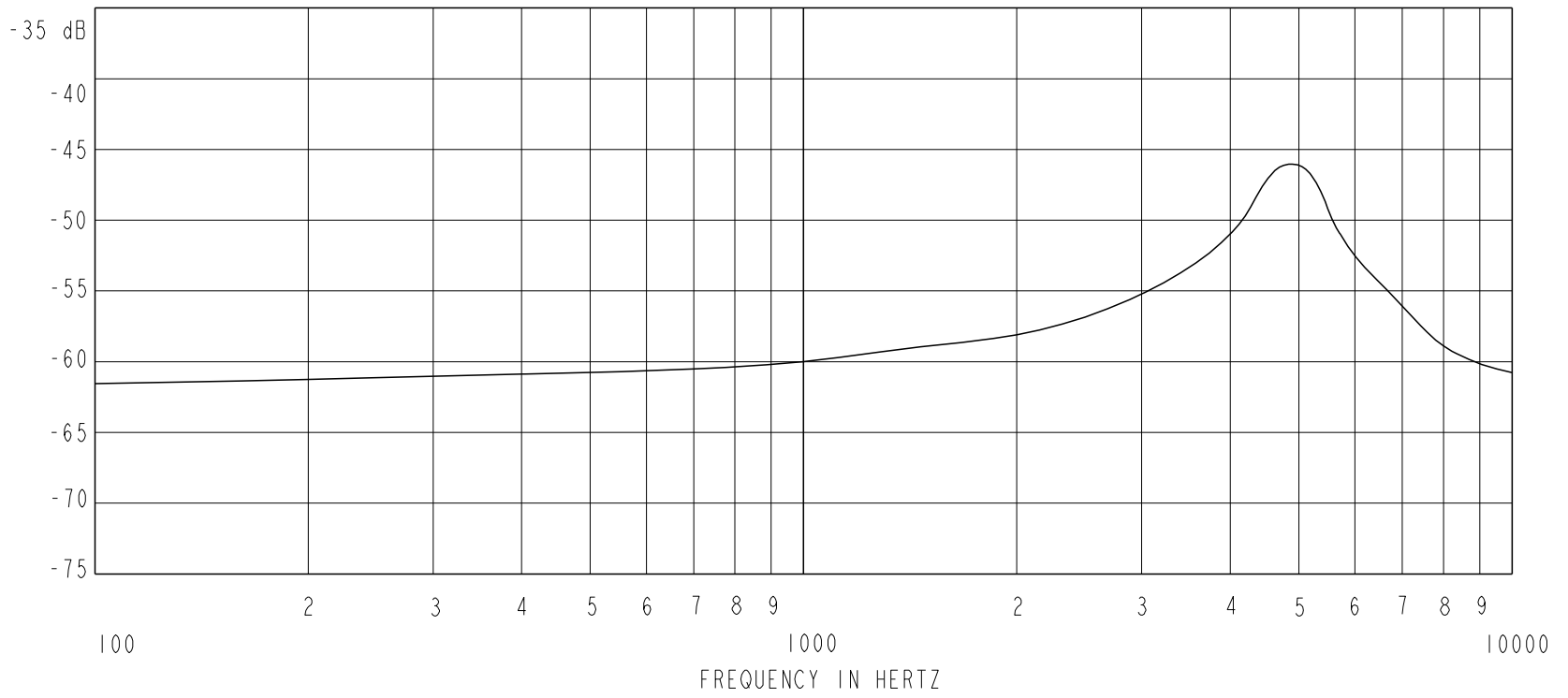
MR-33378-000

OUTLINE DRAWING

SHT 1.1

**KNOWLES CORPORATION**

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M<sup>2</sup>)  
FOR CONDITIONS SHOWN BELOW.



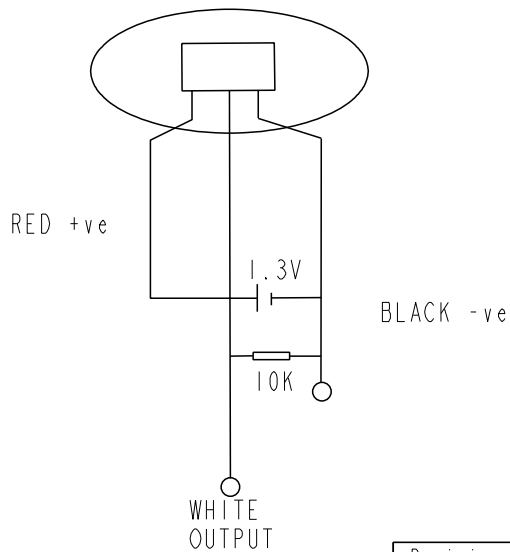
FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHZ	
100	---	-61.5	---	-4.0	+2.0
1000	-65.0	-60.0	-58.0	---	---
4700 APPROX	---	-47.0	---	+8.0	+20.0

NOTES:

1. CASE OF MICROPHONE CONNECTED TO NEGATIVE BLACK LEAD.
2. BELLOWS HOUSING INSULATED FROM MICROPHONE CASE.
3. MICROPHONE TO BE FUNCTIONAL WITH 20 VDC SUPPLY.
4. OTHER MICROPHONE PERFORMANCES IN BELOW TABLE ARE TESTED AT BT-21759-134 MIC LEVEL.

DC SUPPLY V	OUTPUT IMPEDANCE OHMS			AMPLIFIER CURRENT DRAIN uA MAX.	"A" WEIGHTED NOISE 1KHZ EQUIVALENT SPL dB SPL MAX
	MIN.	MOM.	MAX.		
1.3	2000	3500	6000	50	30

5. TEST CONDITION FOR MR AS SHOWN IN BELOW SCHEMATIC WITH 1.3V DC SUPPLY COUPLED WITH 10K OHMS RESISTOR ON OUTPUT.



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B	M10107503	8-17-17	Active	B
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**KNOWLES CORPORATION**

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
		NANC	4-13-17
TITLE: WATERPROOF MICROPHONE		CK. BY	DATE
		GJP	4-13-17
PERFORMANCE SPECIFICATION		APP. BY	DATE
		GJP	4-13-17

MR-33378-000  
SHT 2.1