

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

TITLE: WATERPROOF MICROPHONE

MR-33378-000

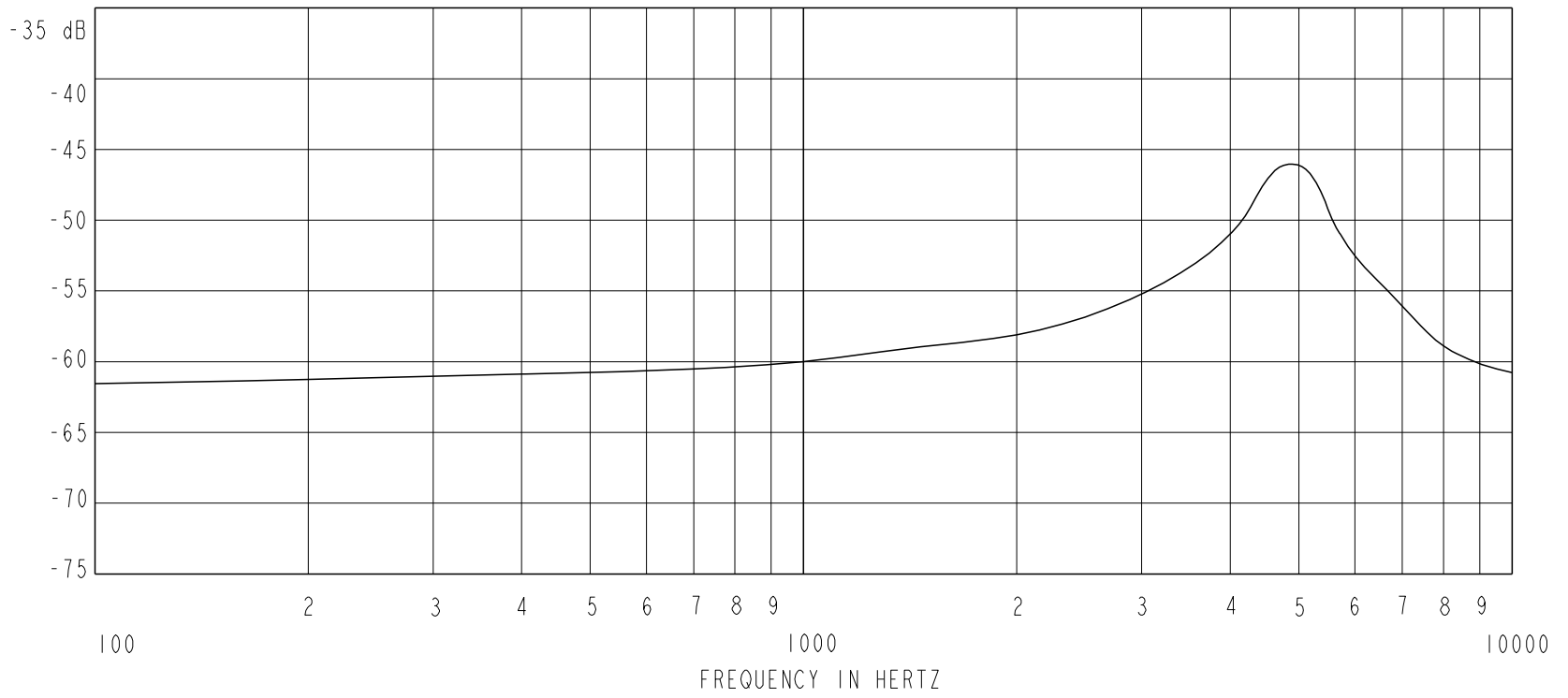
OUTLINE DRAWING

SHT 1.1

DR. BY	DATE
NANC	4-13-17
CK. BY	DATE
GJP	4-13-17
APP. BY	DATE
GJP	4-13-17

KNOWLES CORPORATION

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M²)
FOR CONDITIONS SHOWN BELOW.



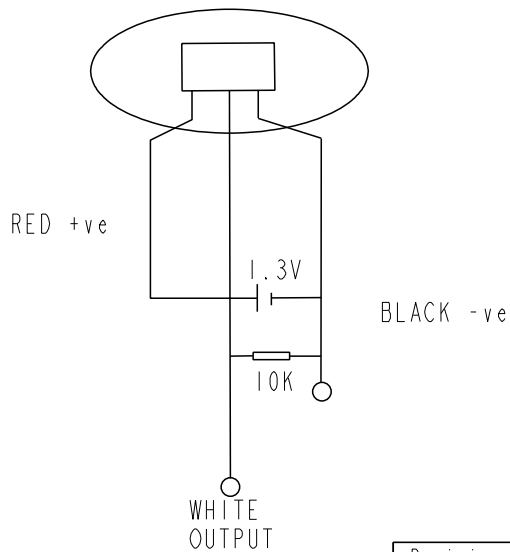
FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHZ	
100	---	-61.5	---	-4.0	+2.0
1000	-65.0	-60.0	-58.0	---	---
4700 APPROX	---	-47.0	---	+8.0	+20.0

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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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

TITLE: WATERPROOF MICROPHONE PERFORMANCE SPECIFICATION
MR-33378-000 SHT 2.1

DR. BY	DATE
NANC	4-13-17
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GJP	4-13-17
APP. BY	DATE
GJP	4-13-17

Mouser Electronics

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