2,77±0,05 [.109±.002] [.0635±.0025] 3,99±0,02 [.157±.001]

→ 5,56±0,02

 $[.219\pm.001]$

EA-26520-000

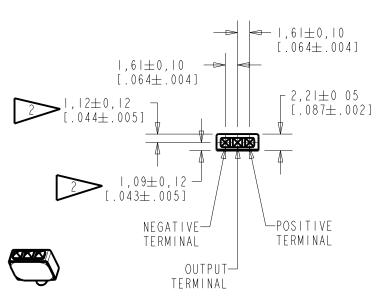
SHT I.I

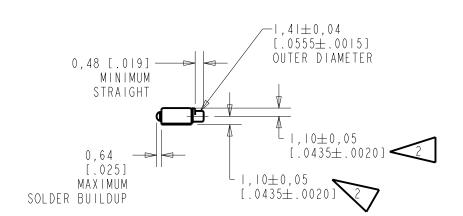
NOTE:

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



LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ± 0.17 [.007].





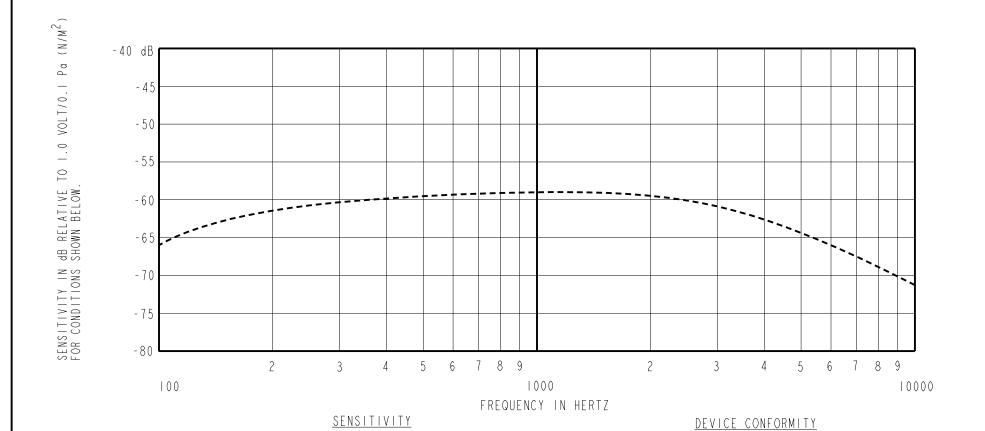
NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

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Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
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MAX.

- - -

-56.0

RANGE OF DEVIATION FROM IKHZ

-4.0

0.0

-2.0

- | | . 0

0.0

-8.0

NOM.

-66.0

-59.0

-64.0

NOTES:

FREQUENCY

100

1000

4800

- I. CASE CONNECTED TO NEGATIVE TERMINAL.
- 2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.

MIN.

-62.0

3. CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATION TEST, SHEET 2.2'.

PORT DC			SENSITIVITY CHANGE ON REDUCING SUPPLY		OUTPUT IMPEDANCE OHMS		
LOCATION		TO 0.9VDC	(I kHz EQUIV. SPL)	MIN.	NOM.	MAX.	
128	1.3V	50 μΑ MAX.	3 dB MAX.	29.5 dB MAX.	2000	3500	6000

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PERFORMANCE SPECIFICATION

APP. BY

12-19-06

SHT 2.1

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WHEN THESE TESTS ARE USED TO ESTABLISH PRODUCT QUALIFICATION, CORRELATION OF TEST EQUIPMENT WITH KNOWLES ELECTRONICS IS ALSO REQUIRED TO ELIMINATE EQUIPMENT AND TEST METHOD VARIATION.

BECAUSE THIS IS AN ACCELERATED LIFE TEST, IT FOLLOWS THAT THE UNITS WHICH HAVE BEEN TESTED WILL NOT QUALIFY AS IN-WARRANTY RETURNS. SINCE THESE TESTS ARE DESTRUCTIVE IN NATURE, DEVICES SUBJECTED TO THESE TESTS SHOULD NOT BE USED IN PRODUCTION.

I. ACCELERATED DAMP HEAT TEST.

I.I PRECONDITIONING:

TIME - 16 HOURS TEMPERATURE - 22°C ±1°C HUMIDITY - 60% MAX. R.H.

1.2 TEST CONDITIONS:

TIME AT CONDITIONS: - 1000 HOURS
TEMPERATURE - 63°C ±1°C
HUMIDITY - 95% R.H. ±2%
VOLTAGE STRESS - DETAILED FIG. I

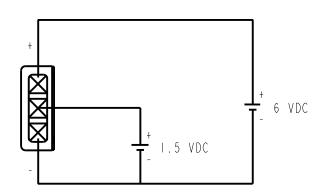


FIG. I

(AVOID CONDENSATION FALLING ON UNITS UNDER TEST.)

1.3 INITIAL MEASREMENTS:

AFTER PRECONDITIONING, MEASURE SENSITIVITY PER SHEET 2.1 OF THE APPLICABLE KNOWLES ELECTRONICS MICROPHONE PERFORMANCE SPECIFICATION.

I.4 TEST PROCEDURE:

INSERT UNIT(S) INTO TEST CHAMBER PER CONDITIONS OF 1.2.

1.5 RECOVERY:

TIME - 2 HOURS TEMPERATURE - 22°C ± 1°C HUMIDITY - 60% MAX. R.H.

I.6 FINAL MEASUREMENTS:

MEASURE SENSITIVITY PER CONDITIONS DESCRIBED ON SHEET 2.1.

I.7 REQUIREMENT:

NO UNITS WILL BE INOPERATIVE FOLLOWING THE TEST AND RECOVERY CYCLE.

2. SHOCK TEST

2.1 PRECONDITIONING:

TIME - 16 HOURS
TEMPERATURE - 22°C ± 1°C
HUMIDITY - 60% MAX. R.H.

2.2 TEST CONDITIONS:

HALF-SINE IMPULSE DURATION - 100 MICROSECONDS PEAK AMPLITUDE - 20,000 q

SPURIOUS DEVIATIONS IN THE HALF-SINE IMPULSE CURVE SHALL BE REDUCED TO WHERE RESULTS ARE NOT APPRECIABLY AFFECTS.

UNIT(S) TO BE SUBJECTED TO THE TEST CONDITIONS EITHER IN THE COVER UP OR COVER DOWN ORIENTATION.

2.3 INITIAL MEASUREMENTS:

AFTER PRECONDITIONING, MEASURE AND RECORD THE 1 kHz SENSITIVITY PER SHEET 2.1 OF THE APPLICABLE KNOWLES ELECTRONICS MICROPHONE PERFORMANCE SPECIFICATION.

2.4 TEST PROCEDURE:

STRESS UNIT(S) ACCORDING TO THE ABOVE 2.2 TEST CONDITIONS.

2.5 RECOVERY:

UNITS TO BE MEASURED IMMEDIATELY AFTER TEST CYCLE.

2.6 FINAL MEASUREMENTS:

MEASURE AND RECORD THE I kHz SENSITIVITY PER SHEET 2.1.

2.7 REQUIREMENT:

THE UNIT(S) SHALL SHOW A MAXIMUM CHANGE IN IKHZ SENSITIVITY (INITIAL TO FINAL) OF 1.0 dB AS A RESULT OF THE TEST CYCLE.

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Revision C.O. # Implementation Date RELEASE LEVEL

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