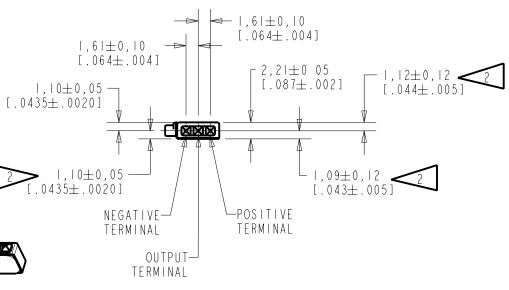
EA-21843-000

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].



→ 0,48 [.019]

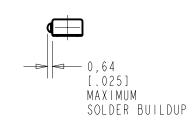
MINIMUM STRAIGHT

 $3,99\pm0,02$

 $-5,56\pm0,02$

 $[.219\pm.001]$

 $[.157\pm.001]$



NOMINAL WEIGHT .I3 GRAM

 $|.4|\pm0.04$

 $1.60 \pm 0.05 -$

 $[.063 \pm .002]$

 $[.0555\pm.0015]$

OUTER DIAMETER

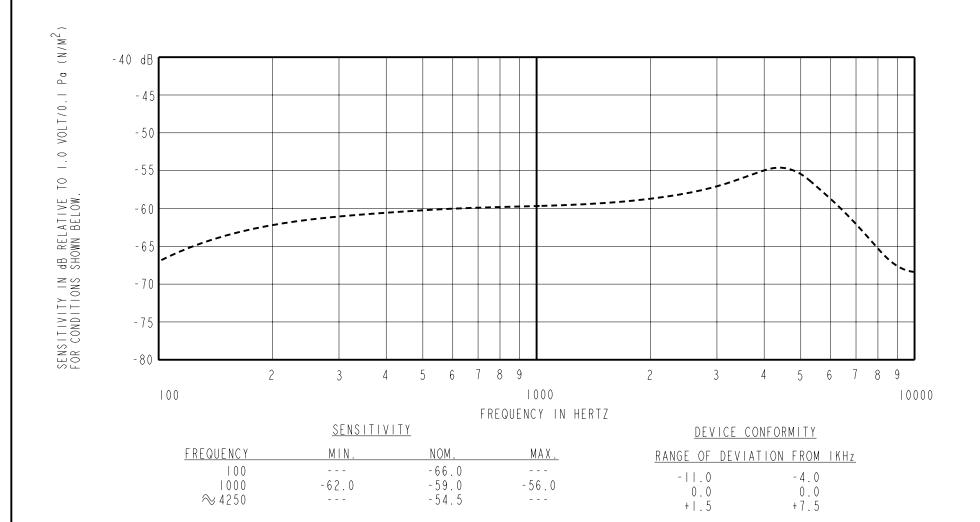
I,97±0,05

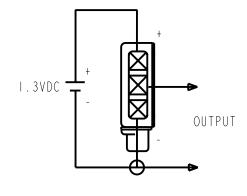
 $[.078 \pm .002]$

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Dat	e RELEASE LEVEL		REVISION
A	M10101526	8 - 3 - 07	Release	e d	A
SCALE:		2:1		DR. BY	DATE
	CK. BY	8 - 3 - 0 7 DATE			
TITLE:	MIC	ROPHONE	EA-21843-000	GJP APP. BY	8 - 8 - 0 7 DATE
	OUTL	INE DRAWING	SHT I.I	G J P	8 - 8 - 0 7 Rev: B





NOTES:

- I. CASE CONNECTED TO NEGATIVE TERMINAL.
- 2. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- 3. CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATION TEST, SHEET 2.2'.

l	PORT DC	AMPLIFIER	SENSITIVITY CHANGE	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS MIN. NOM. MAX.		CAPACITANCE ±50%				
	LOCATION	OCATION SUPPLY	CURRENT DRAIN	TO 0.9VDC	(I kHz EQUIV. SPL)	MIN.	NOM.	MAX.	I - 2	I - 3	
	98	1.3V	50 uA MAX.	3 dB MAX.	28.5 dB MAX.	2000	3500	6000	N A	NA	

Kevision	C.O. #	Implementation Date	KELEASE LEVEL		KFA1210N
			Dalaasad		٨
A	M10101526	8 - 3 - 07	Keleased		H
WHEN TEST I	IMITS ARE US	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION DR.	ВҮ	DATE

8-8-07

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

NMEN 1651 LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJE CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

ELIMINATION OF EQUIPMENT AND TEST METHOD VARIAT	LSY	8 - 3 - 07	
		CK. BY	DATE
MICROPHONE	EA-21843-000	GJP	8-8-07
MICKOLIONE	LN 21043 000	APP. BY	DATE
DEDECOMANCE SDECIFICATION	C T D	0.10	0 0 0 7

SHEET 2.2

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 \pm 1°C HUMIDITY - 95% R.H. \pm 2% VOLTAGE STRESS - DETAILED FIG. I

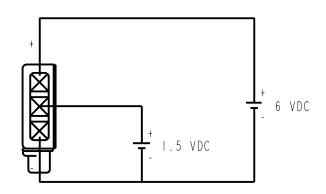


FIG. I

(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.

1.7 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 g

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.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Released		٨
А	M10101526	8 - 3 - 07	Norcasca		\land
WHEN TEST I	LIMITS ARE US	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

CRITERTA ELIMINAT	LSY	8 - 3 - 07		
	CK. BY	DATE		
TITLE:	MICROPHONE	EA-21843-000	GJP	8-8-07
	MICHOINONE	LN 21043 000	APP. BY	DATE
	PERFORMANCE SPECIFICATION	SHT 2.2	GJP	8-8-07