EA-21868-000

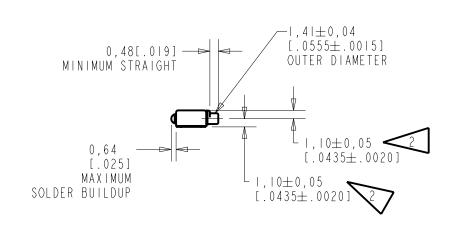
SHT I.I

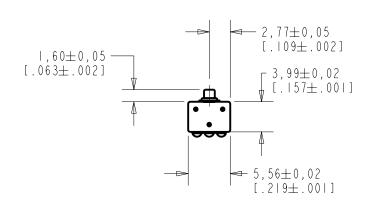
NOTE:

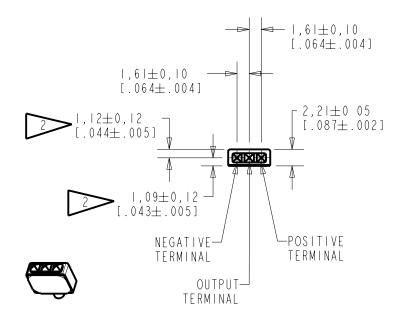
I. INCREASED PRESSURE AT THE SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.

2 LOCAT CONVE

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].





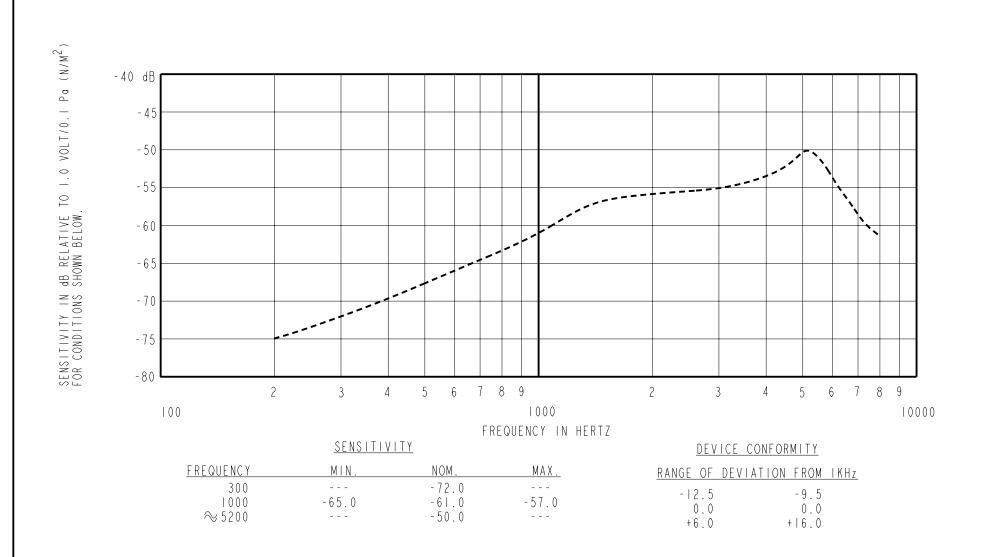


NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
A	M10101308	11-22-06	Release	d	A
SCALE: 2:1					DATE
	LSY ck. by	11-22-06 DATE			
TITLE:	MIC	ROPHONE	EA-21868-000	GJP APP. BY	12-6-06 DATE
	OUTL	INE DRAWING	SHT I.I	GJP	12-6-06



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'.

PORT	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (RE 1.0 VOLT)	OUTPUT	PUT IMPEDANCE OHMS		CAPACITANCE ±50%	
LOCATION					MIN.	NOM.	MAX.	I - 2	I - 3
128	1.3V	50 uA MAX.	3 dB MAX.	-101 dB MAX.	2000	3500	6000	N A	NA

Kevision	C.O. #	Implementation Date	Released		KEA1210M
					Α
A	M10101308	11-22-06			
			INSPECTION ACCEPTANCE/REJECTION	DR. BY	DATE
		OF TEST EQUIPMENT WITH KN IT AND TEST METHOD VARIAT	OWLES IS ALSO REQUIRED FOR ION	LSY	11-22-06

12-6-06

12-6-06

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

TITLE: MICROPHONE EA-21868-000

PERFORMANCE SPECIFICATION SHT 2.1

GJP

APP. B

GJP

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

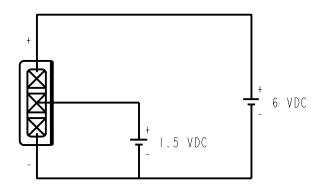


FIG. I

(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 I kHz SENSITIVITY (INITIAL TO FINAL) OF 1.0 dB AS A RESULT OF THE TEST CYCLE.

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			6		٨
			l Released		А
Α	M10101308	11-22-06			<i>,</i> ,
WHEN TEST I	LIMITS ARE US	SED TO ESTABLISH INCOMING	INSPECTION ACCEPTANCE/REJECTION DR	R. BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN IEST LIMITS ARE USED TO ESTABLISH INCOMING CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNC ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATI	LSY ck. by	11-22-06 DATE	
MICROPHONE	EA-21868-000	GJP APP BY	12-6-06 DATE
PERFORMANCE SPECIFICATION	SHT 2.2	GJP	12-6-06