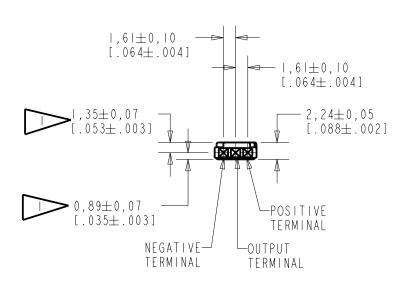
BT-21759-000

SHT I.I

NOTE:

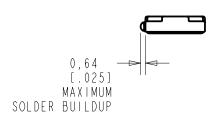
➤ LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER. HORIZONTAL LOCATION FOR TERMINAL CENTERED TO ±0,17 [.007].



0000

 $7,87\pm0,05$

 $[.310\pm.002]$



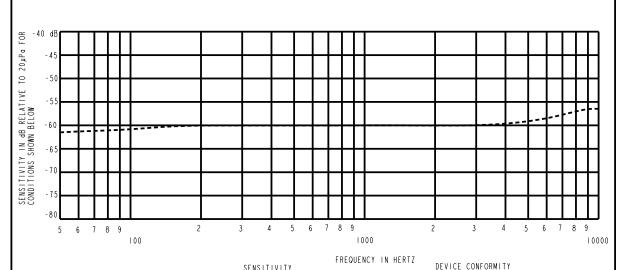
DIMENSIONS IN MILLIMETERS [INCHES]

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ALL HOLES LIE WITHIN→ A Ø 4,76 [.1875] CIRCLE

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION	
A	M10101192	7 - 26 - 06	Release	d	Α
SCALE:		2:1		DR. BY	DATE
	[DO NOT SCALE DRA	WING	LSY ck. by	7 - 26 - 06 DATE
TITLE:	MICI	ROPHONE	BT-21759-000	GJP	7-27-06
	OUTL	INE DRAWING	SHT I.I	APP. BY GJP ASIZE.FRM	7 - 27 - 06 Rev: B

BT-21759-000 SHEET 2.1

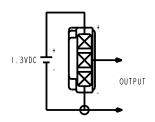


SENSITIVITY

FREQUENCY $M \mid N$ MAX. 100 1000 10000 -61.5 -60.0 -56.5 -63.0 -57.0

	<i>D</i> L T	100	00111	011111		
RANGE	. OF	DE	/IATI	ON	FROM	

-4.0 0 -1.0 +1.0 0 +9.5



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'.
- 4. OPEN CIRCUIT SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/MICROBAR (0.1 $\mbox{N/m}^2$)

PORT	DC	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%		
LOCATION	SUPPLY	CURRENT DRAIN	TO 0.9VDC	(I kHz EQUIV. SPL)	MIN.	NOM.	MAX.	1-2	I - 3
KA	1.3V	50 μΑ MAX.	3 dB MAX.	30.0 dB MAX.	2000	3500	6000	N.A.	NA

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
A	M10101192	7-26-06	Released		A
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA. CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR					DATE
ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				LSY	7 - 26 - 06
				CK. BY	DATE
TITLE:	MIC	ROPHONE	BT-21759-000	GJP	7-27-06
		VI IIVIIL	J. L.: 55 566	ADD BY	DATE

SHT 2.1

GJP

7-27-06

PERFORMANCE SPECIFICATION

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BT-21759-000

SHEET 2.2

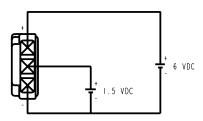
WHEN THESE TESTS ARE USED TO ESTABLISH PRODUCT QUALIFICATION, CORRELATION OF TEST EQUIPMENT WITH KNOWLES ELECTRONICS IS ALSO REQUIRED TO ELIMINATE EQUIPMENT AND TEST METHOD VARIATION.

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.

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

I.5 RECOVERY:

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

1.6 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 | kHz SENSITIVITY PER SHEET 2.1.

2.7 REQUIREMENT:

THE UNITES) 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
A	M10101192	7 - 26 - 06	Released		A
WHEN TEST I	DR. BY	DATE			
ELIMINATIO	RITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR LIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				7 - 26 - 06
				CK. BY	DATE
TITLE:	MIC	ROPHONE	BT-21759-000	GJP	7-27-06
		OI IIOIIE	D. E. 30 000	APP. BY	DATE
	PERFORMAN	NCE SPECIFICATION	SHT 2.2	GJP	7-27-06

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