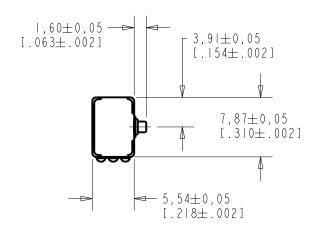
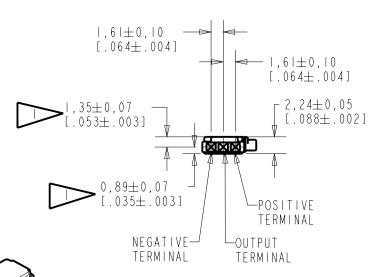
BT-21755-000

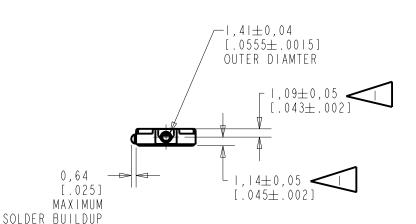
SHT I.I

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].





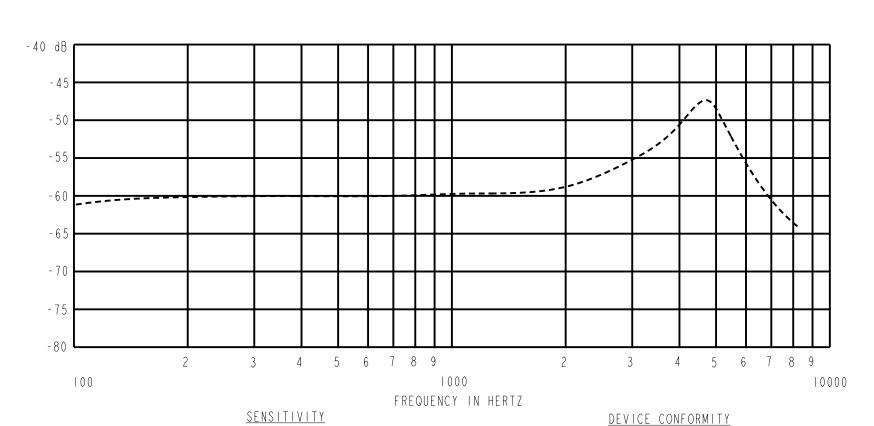


DIMENSIONS IN MILLIMETERS [INCHES]

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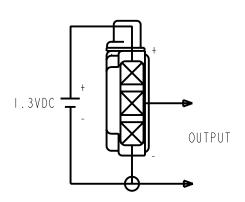
Revision	C.O. #	Implementation Dat	e RELEASE LEVE	L	REVISION
Α	M10101301	11-6-06	Releas	e d	A
SCALE:	SCALE: 2:1				DATE
DO NOT SCALE DRAWING					11-6-06 DATE
TITLE:	MICROPHONE BT-21755-000				- 9 - 0 6
OUTLINE DRAWING SHT I.I					- 9 - 06





	OLITOTTI	<u> </u>	
FREQUENCY	MIN.	NOM.	MAX.
100		-60.5	
1000	-62.5	-59.5	- 56 . 5
≈ 4700		- 48.0	

RANGE OF DEVIATION FROM IKHZ -5.0 0 0 0 +6.0 +16.0



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	AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT	IMPEDANO	CE OHMS	CAPACITA	NCE ±50%
LOCATION	SUPPLY CURRENT	CURRENT DRAIN	DRAIN TO 0.9VDC	(kHz EQUIV. SPL)	MIN.	NOM.	MAX.	1 - 2	1 - 3
3\$	1.3V	40 μA MAX.	3 dB MAX.	27.0 dB MAX.	2000	3500	6000	N A	N A

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	Ι Δ
А	M10101301	11-6-06		/ \

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION DR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR MMM

CV. BY

MICROPHONE

PERFORMANCE SPECIFICATION

	MMM	11-6-06
	CK. BY	DATE
BT-21755-000	GJP	11-9-06
B1 21133 000	APP. BY	DATE
SHT 2.1	GJP	11-9-06

DATE

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

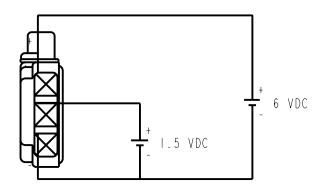


FIG. I

(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.

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 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
	MININIA	11-6-06	Released		Α
А	M10101301	11-0-06			
			INSPECTION ACCEPTANCE/REJECTION OWLES IS ALSO REQUIRED FOR	DR. BY	DATE

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNO ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION	DR. BY MMM	DATE - 6 - 0 6	
ELIMINATION OF EGOTIMENT AND TEST METHOD VANTATI	CK. BY	DATE	
MICROPHONE	BT-21755-000	GJP APP BY	11-9-06 DATE
PERFORMANCE SPECIFICATION	SHT 2.2	GJP	11-9-06