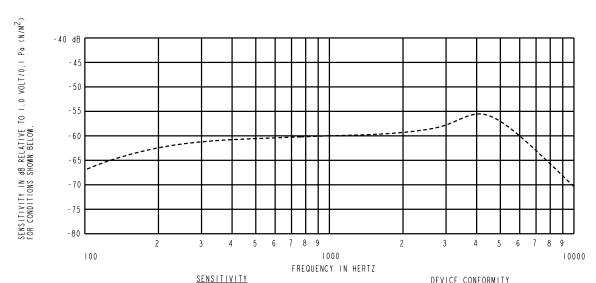
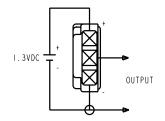


BT-23045-077 SHEET 2.1



	0211011111	111	
FREQUENCY	MIN.	NOM.	MAX.
100		-67.0	
1000	-62.0	-60.0	- 58 . 0
≈ 4200		-55.5	

DEVICE CONFORMITY RANGE OF DEVIATION FROM IKHZ -11.0 0 +1.5 -4.0 0 +7.5



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'.

	PORT	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (I kHz EQUIV. SPL)	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%		
LOCATIO	LOCATION					MIN.	NOM.	MAX.	I - 2	I - 3
İ	128	1.3V	40 μA MAX.	3 dB MAX.	27.0 dB MAX.	2655	3500	4500	N A	NA

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Released		Α
A	M10101318	11-22-06			
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION				DR. BY	DATE
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION					11-22-06
		CK. BY	DATE		
TITLE:	MIC	ROPHONE	BT-23045-077	GJP	11-30-06
""		NOI HONE	B. 20040 011	APP. BY	DATE

SHT 2.1

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

BT-23045-077

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.

HUMIDITIONS:

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

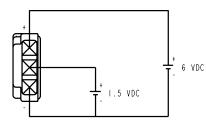


FIG. I

(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.

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

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.

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
	A	M10101318	11-22-06	Released		
	WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				DR. BY	DATE -22-06
)	THE MICROPHONE DI 2704E 077				CK. BY	DATE
	***************************************	MIC	ROPHONE	BT-23045-077	APP. BY	11-30-06 DATE
		PERFORMAN	NCE SPECIFICATION	SHT 2.2	GJP	11-30-06

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