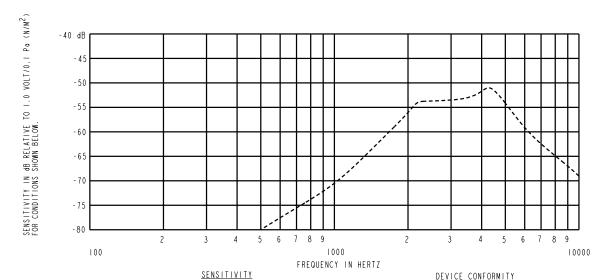


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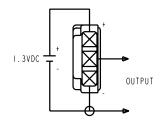
SHEET 2.1



FREQUENCY MIN. NOM. MAX.

1000 --- -70.5 --3000 -56.5 -53.5 -50.5

≈ 4300 --- -51.0 ---



## 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 LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE (RE 1.0 VOLT)	OUTPUT IMPEDANCE OHMS			CAPACITANCE ±50%	
					MIN.	NOM.	MAX.	1 - 2	I - 3
128	1.3V	50 μA MAX.	3 dB MAX.	-101 dB MAX.	2000	3500	6000	N A	NA

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION	
			Released		Δ
A	M10101318	11-22-06			/ \
		E USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJ		DR. BY	DATE
CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION					11-22-06
1				CK. BY	DATE

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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.

I.2 TEST CONDITIONS:

TIME AT CONDITIONS: - 1000 HOURS

TEMPERATURE - 63°C ±1°C

HUMIDITY - 95% R.H. ±2%

\*\*\*CONTAGE STRESS - DETAILED FIG. |

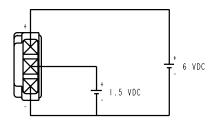


FIG. I

(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 | 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	vision C.O. # Implementation Date RELEASE LEVEL		RELEASE LEVEL		REVISION
	Δ	M10101318	11-22-06	Released		Α
2	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					DATE     - 22 - 06   DATE
,	TITLE:	MIC	ROPHONE	BT-21835-000	GJP APP. BY	11-30-06 DATE
		PERFORMAN	NCE SPECIFICATION	SHT 2.2	GJP	11-30-06

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