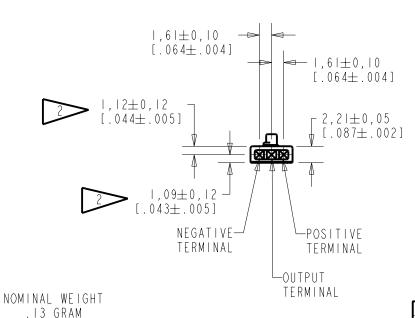
EK-28585-C77

SHT I.I

NOTE

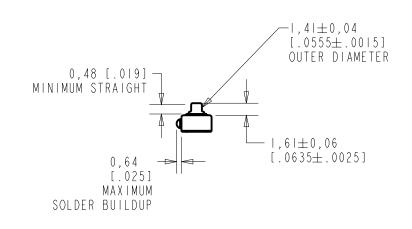
I. INCREASED PRESSURE AT THE SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.

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



 $1.98 \pm 0.05 -$

 $[.078 \pm .002]$



DIMENSIONS IN MILLIMETERS [INCHES]

 $-2,77\pm0,05$

 $[.109\pm.002]$

 3.99 ± 0.02

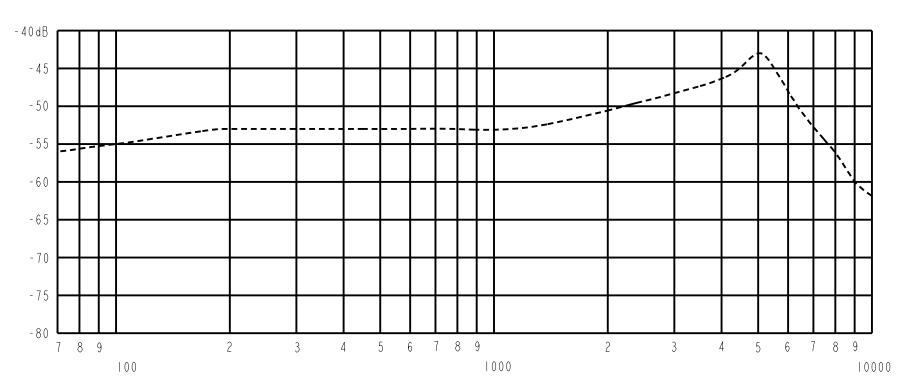
 $, [.157 \pm .001]$

 $[.219\pm.001]$

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

| Revision | C.O. # | Implementation Dat | e RELEASE LEVEL | | REVISION |
|-------------------------|------------|--------------------|-----------------|--------------------|-----------------------|
| A | M10100742 | 8 - 5 - 05 | Release | e d | A |
| SCALE: | SCALE: 2:1 | | | DR. BY | DATE |
| DO NOT SCALE DRAWING | | | | | 8 - 5 - 0 5 DATE |
| MICROPHONE | | | EK-28585-C77 | MMM APP. BY | 8 - 8 - 0 5 Date |
| OUTLINE DRAWING SHT I.I | | | | MMM IASIZE, FRM | 8 - 8 - 0 5 Rev: B |





FREQUENCY IN HERTZ

| SENSI | T | ١V | | Τ, | Υ |
|-------|---|----|--|----|---|
|-------|---|----|--|----|---|

| FREQUENCY | MIN. | NOM. | <u>MAX</u> . |
|-----------|-------|--------|--------------|
| 50-90 | | - 56.0 | |
| 100 | | -55.0 | |
| 500 | -57.0 | -53.0 | -51.0 |
| 5300 | | -43.0 | |
| | | | |

<u>DEVICE CONFORMITY</u>

| RANGE | OF | DEVI | ATION | FROM | 1000Hz |
|-------|----|------|-------|------|--------|
| | - | -2.0 | + | 1.0 | |
| | - | 2.5 | - | 1.0 | |
| | | 0.0 | (| 0.0 | |
| | + | 6.0 | + (| 6.0 | |

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 QUALIFICATIONS TEST, EK-PA SHEET 2.2' WITH REF. FREQ. OF 1000 Hz.
- 4. TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.02 dB/%RH.
- 5. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- 6. CAPACITANCE MEASUREMENT MADE WITH BOONTON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15 mVOLTS AT I kHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

| DC AMPLIFIER SUPPLY CURRENT DRA | AMPLIFIER | | "A" WEIGHTED NOISE (I kHz EQUIV. SPL) | OUTPUT | T IMPEDANCE OHMS | | CAPACITANCE ±75% | |
|---------------------------------|---------------|-----------|--|--------|------------------|------|-----------------------|-------------------------|
| | CURRENT DRAIN | | | MIN. | NOM. | MAX. | OUTPUT TO NEGATIVE | POSITIVE TO NEGATIVE |
| 1.3V | 50 μA MAX. | 3 dB MAX. | 26.0 dB MAX. | 2800 | 4400 | 6800 | 100pF | 100pF |

CAPACITANCE PROBE POINTS

| | Revision | C.O. # | Implementation Date | RELEASE LEVEL | REVISION |
|---|----------|-----------|---------------------|---------------|----------|
| | | | | | |
| | | | | Released | Ι Δ |
| ı | А | MI0100742 | 8-5-05 | 11010000 | / \ |

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 LIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

| | | | С |
|--------|---------------------------|--------------|---|
| TITLE: | MICROPHONE | EK-28585-C77 | ١ |
| | MICKOLITONE | ER 20000 011 | А |
| | PERFORMANCE SPECIFICATION | SHT 2.1 | L |

DR. BY DATE

AB 8-5-05

CK. BY DATE

MMM 8-8-05

APP. BY DATE

MMM 8-8-05