

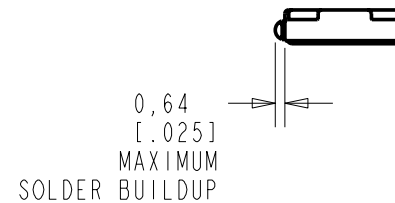
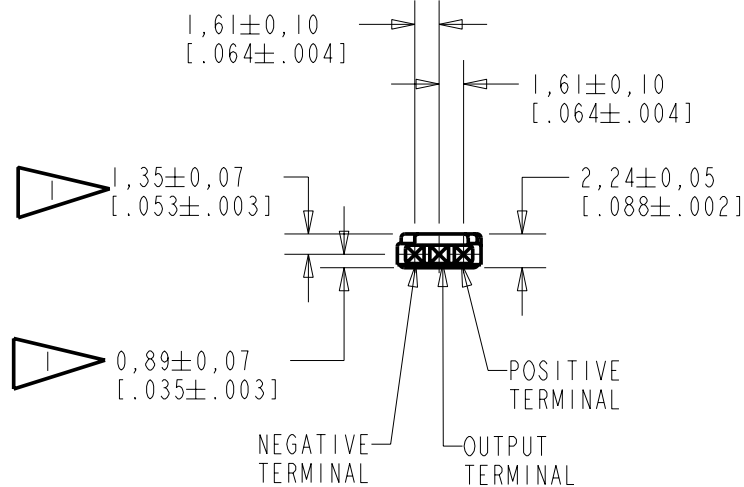
**BT-21759-000**  
SHT 1.1

ALL HOLES LIE WITHIN  
A  $\varnothing 4,76$  [.1875] CIRCLE



NOTE:

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].



DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Released	A
A	MI0101192	7-26-06		

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

SCALE:	2:1	DR. BY	DATE
DO NOT SCALE DRAWING		LSY	7-26-06
TITLE:	MICROPHONE	CK. BY	DATE
	OUTLINE DRAWING	GJP	7-27-06
		APP. BY	DATE
		GJP	7-27-06

**BT-21759-000**

SHT 1.1



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1 kHz	
100	---	-61.5	---	-4.0	+1.0
1000	-63.0	-60.0	-57.0	0	0
10000	---	-56.5	---	-1.0	+9.5



NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATION TEST, SHEET 2.2'.
- OPEN CIRCUIT SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/MICROBAR (0.1 N/m<sup>2</sup>)

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

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	M10101192	7-26-06	<b>Released</b>	<b>A</b>
<small>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</small>				<small>DR. BY DATE</small> LSY 7-26-06
<small>TITLE:</small> <b>MICROPHONE</b>			<b>BT-21759-000</b>	<small>CK. BY DATE</small> GJP 7-27-06
PERFORMANCE SPECIFICATION			<b>SHT 2.1</b>	<small>APP. BY DATE</small> GJP 7-27-06

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.

1. ACCELERATED DAMP HEAT TEST.

- 1.1 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 ±1°C
  - HUMIDITY - 95% R.H. ±2%
  - VOLTAGE STRESS - DETAILED FIG. 1



FIG. 1  
(AVOID CONDENSATION FALLING ON UNITS UNDER TEST.)

- 1.3 INITIAL MEASUREMENTS:
  - AFTER PRECONDITIONING, MEASURE SENSITIVITY PER SHEET 2.1 OF THE APPLICABLE KNOWLES ELECTRONICS MICROPHONE PERFORMANCE SPECIFICATION.
- 1.4 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 1 kHz SENSITIVITY PER SHEET 2.1.
- 2.7 REQUIREMENT:
  - THE UNIT(S) SHALL SHOW A MAXIMUM CHANGE IN 1kHz SENSITIVITY (INITIAL TO FINAL) OF 1.0 dB AS A RESULT OF THE TEST CYCLE.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			<b>Released</b>	<b>A</b>
A	M1010192	7-26-06		

**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

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
		LSY	7-26-06
TITLE: <b>MICROPHONE</b>		CK. BY	DATE
		GJP	7-27-06
PERFORMANCE SPECIFICATION		APP. BY	DATE
		GJP	7-27-06

**BT-21759-000**  
**SHT 2.2**

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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