Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Knowles EA-21843-000

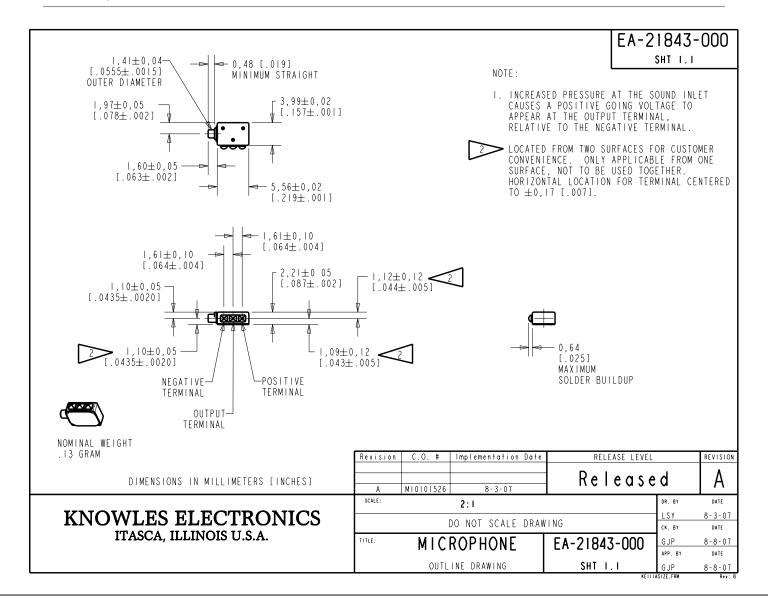
For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Knowles: Excellent Integrated System Limited

Datasheet of EA-21843-000 - MICROPHONE

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





Distributor of Knowles: Excellent Integrated System Limited

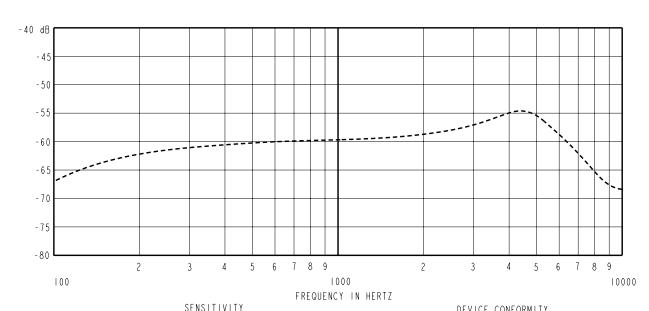
Datasheet of EA-21843-000 - MICROPHONE

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

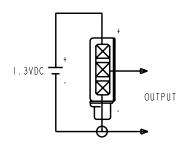
EA-21843-000

SHEET 2.1





	<u> </u>	111	
FREQUENCY	MIN.	NOM.	MAX.
100		-66.0	
1000	-62.0	-59.0	-56.0
≈ 4250		-54.5	



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 LOCATION SUPP		C AMPLIFIER		"A" WEIGHTED NOISE (I kHz EQUIV. SPL)	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%		
	SUPPLY CURRENT I	CURRENT DRAIN			MIN.	NOM.	MAX.	I - 2	I - 3
9\$	1.3V	50 uA MAX.	3 dB MAX.	28.5 dB MAX.	2000	3500	6000	N A	NA



Distributor of Knowles: Excellent Integrated System Limited

Datasheet of EA-21843-000 - MICROPHONE

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

EA-21843-000

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

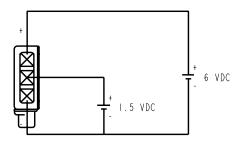


FIG. I

(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.

I.6 FINAL MEASUREMENTS:

MEASURE SENSITIVITY PER CONDITIONS DESCRIBED ON SHEET 2.1.

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. HUMIDITY

2.2 TEST CONDITIONS:

HALF-SINE IMPULSE DURATION - 100 MICROSECONDS PEAK AMPLITUDE - 20,000 q

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.

STRESS UNIT(S) ACCORDING TO THE ABOVE 2.2 TEST CONDITIONS.

UNITS TO BE MEASURED IMMEDIATELY AFTER TEST CYCLE.

2.6 FINAL MEASUREMENTS

MEASURE AND RECORD THE I kHz SENSITIVITY PER SHEET 2.1.

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.