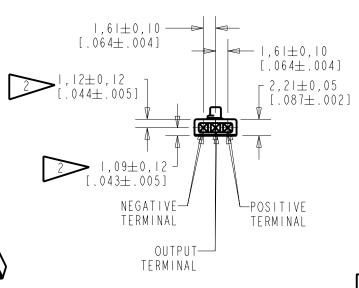
EK-23027-152

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 ± 0.17 [.007].



 $1.98 \pm 0.05 -$

 $[.078 \pm .002]$

→ 2,77±0,05

 $[.219\pm.001]$

 $[.109 \pm .002]$

 -3.99 ± 0.02

 $[.157\pm.001]$

 $|,4|\pm 0,04$ 0,48[.019] -MINIMUM STRAIGHT $[.0555 \pm .0015]$ OUTER DIAMETER $,61\pm0,06$ $[.0635\pm.0025]$

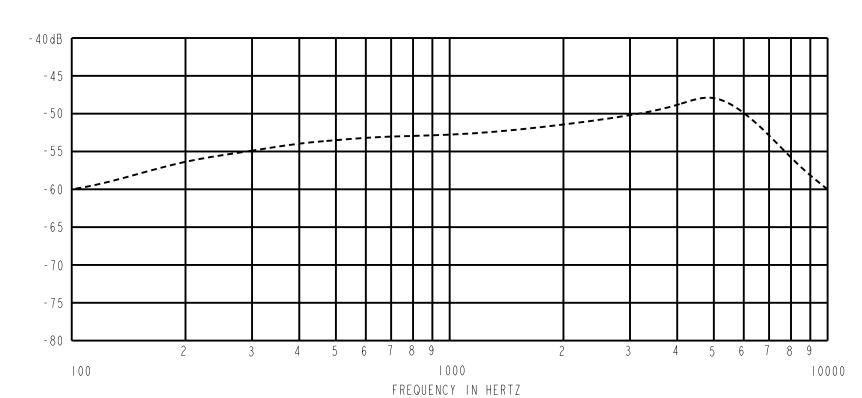
NOMINAL WEIGHT .13 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

Revision	on C.O. # Implementation Date RELEASE LEVEL				REVISION
A	M10101504	6 - 25 - 07	Release	e d	A
SCALE:		2:1		DR. BY	DATE
	CK. BY	6 - 25 - 07 DATE			
TITLE:	MIC	ROPHONE	EK-23027-152	GJP APP. BY	6 - 26 - 07 DATE
	OUTL	INE DRAWING	SHT I.I	G J P	6 - 26 - 07 Rev: B





<u>SENSITIVITY</u>

FREQUENCY	MIN.	NOM.	MAX.
100		- 60.0	
1000	- 5 5 . 0	- 53.0	- 5 . 0
4000-6000		- 48.5	

DEVICE CONFORMITY

RANGE	OF	DEV	IAT	ION	FROM	IKHz
	-	. 0		- 4.	0	
	0	. 0		0.	0	
	+	5		+ 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 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.

	PORT		AMPLIFIER	SENSITIVITY CHANGE ON REDUCING SUPPLY	"A" WEIGHTED NOISE	OUTPUT IMPEDANCE OHMS		CAPACITANCE ±50%			
	LOCATION	SUPPLY	CURRENT DRAIN	TO 0.9VDC	(I kHz EQUIV. SPL)	MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO POSITIVE	POS. TO NEGATIVE
İ	0 K	1.3V	50 μΑ MAX.	3 dB MAX.	26.0 dB MAX.	2800	4400	6800	N/A	N/A	N/A

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			_	l .
			l Released	Ι Δ
А	MI0101504	6-25-07		'\

DATE 6 - 25 - 07

DATE

6 - 26 - 07 DATE

6-26-07

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.

WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION PR. BY CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION

CK. BY

			CK. BY
ITLE:	MICROPHONE	EK-23027-152	GJP
	MICKOLHONE	LK 20021 132	APP. B
	PERFORMANCE SPECIFICATION	SHT 2.1	GJP