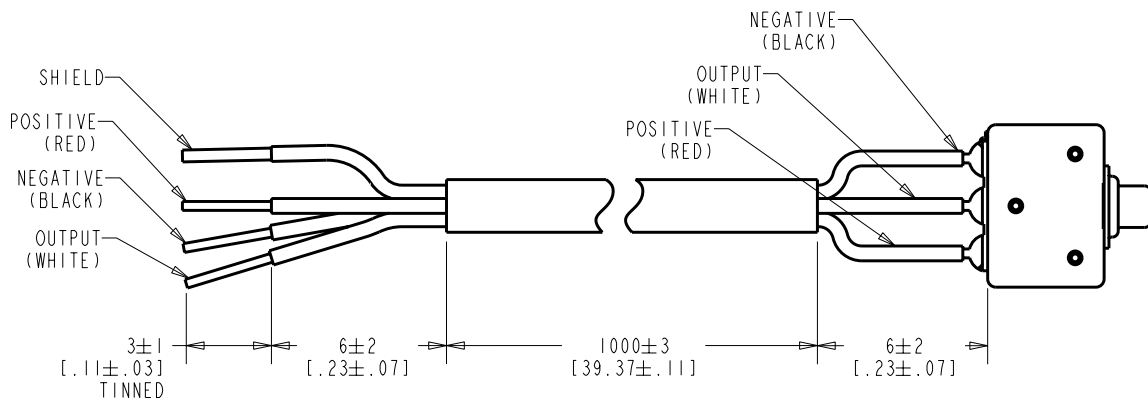


EK-23028-P22
SHT 1.1



NOMINAL WEIGHT
.4 GRAMS

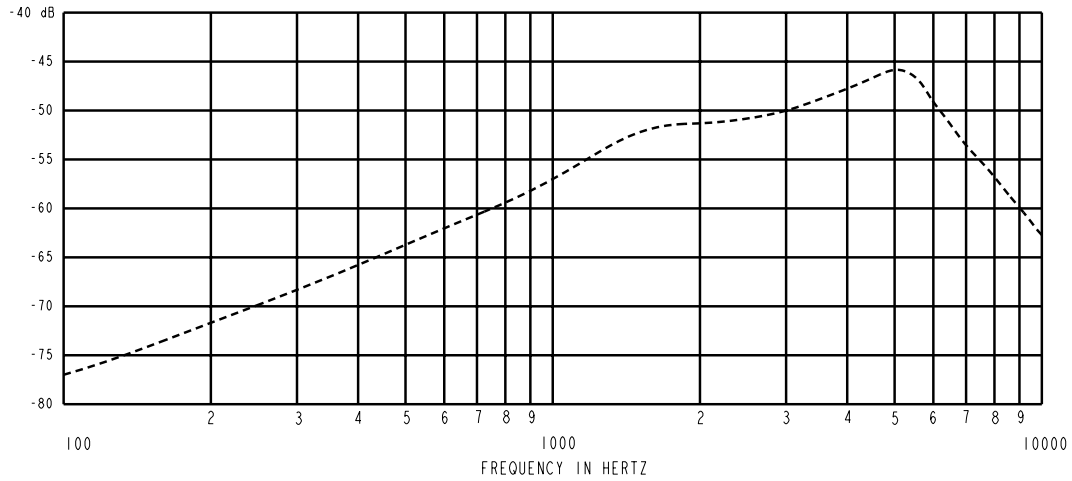
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION	
			Released	A	
A	MI0101055	3-14-06			
SCALE: 5:1			DR. BY	DATE	
DO NOT SCALE DRAWING			MMM	3-14-06	
			CK. BY	DATE	
TITLE: MICROPHONE		EK-23028-P22		GJP	3-16-06
		OUTLINE DRAWING		SHT 1.1	APP. BY
			GJP	3-16-06	

KE111ASTZE.FRM Rev: B

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M²)
FOR CONDITIONS SHOWN BELOW.



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1kHz	
300	---	-68.0	---	-12.5	-9.5
1000	-60.0	-57.0	-54.0	0.0	0.0
4300-5700	---	-46.0	---	+6.0	+16.0

NOTES:

- CASE CONNECTED TO NEGATIVE TERMINAL.
- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- CONFORMS TO REQUIREMENTS SHOWN ON 'ELECTRET MICROPHONE ENVIRONMENTAL QUALIFICATIONS TEST, EK-PA SHEET 2.2' WITH REF. FREQ. 1000 Hz.
- TYPICAL SENSITIVITY TO HUMIDITY AT 1000 Hz IS 0.02 dB/%RH.
- SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- CAPACITANCE MEASUREMENT MADE WITH BOON TON MODEL 7200 OR EQUIVALENT WITH APPLIED AC VOLTAGE OF 15 mVOLTS AT 1 MHz AND 0 VDC. INCLUDES CIRCUIT CAPACITANCE IN PARALLEL WITH CAPACITOR.

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		
					MIN.	NOM.	MAX.
12S	1.3V	50 uA MAX.	3 dB MAX.	-100.0 dB MAX.	2800	4400	6800

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Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	M10101055	3-14-06	Released	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
TITLE: MICROPHONE PERFORMANCE SPECIFICATION		MM	3-14-06
		GJP	3-16-06
EK-23028-P22 SHT 2.1		APP. BY	DATE
		GJP	3-16-06