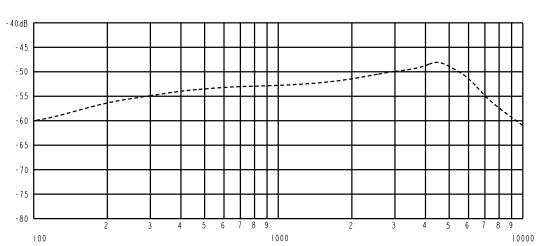


EK-23024-C48

SHEET 2.1





FREQUENCY IN HERTZ

FREQUENCY	MIN.	NOM.	MAX.
100		-60.0	
1000	- 55.0	-53.0	-51.0
3500-5500		- 48.5	

DEVICE CONFORMITY

RANGE OF DEVIATION FROM IKHZ
-11.0 -4.0
0.0 0.0
+1.5 +7.5

GRADES FOR I kHz SENSITIVITY WITH I.3 V SUPPLY AND NO LOAD:

GRADE A: -51.00 TO -53.00 GRADE B: -53.01 TO -55.00

NOTES:

- I. CASE CONNECTED TO NEGATIVE TERMINAL.
- 2. 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. 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	K ON DEDUCTING CHIRDLY	"A" WEIGHTED NOISE (I kHz EQUIV. SPL)			CAPACITANCE ±50%			
LOCATION		CURRENT DRAIN			MIN.	NOM.	MAX.	OUTPUT TO NEGATIVE	OUTPUT TO POSITIVE	POS. TO NEGATIVE
128	1.3V	50 μΑ MAX.	3 dB MAX.	26.0 dB MAX.	2800	4400	6800	75pF	N/A	75pF

CAPACITANCE PROBE POINTS

Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
A	M10101048	3-9-06	Released	Α	
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					DATE 3-9-06 DATE
TITLE:	MIC	ROPHONE	EK-23024-C48	GJP APP. BY	3 - 10 - 06

SHT 2.1

PERFORMANCE SPECIFICATION

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.