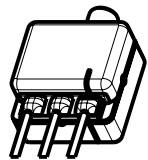
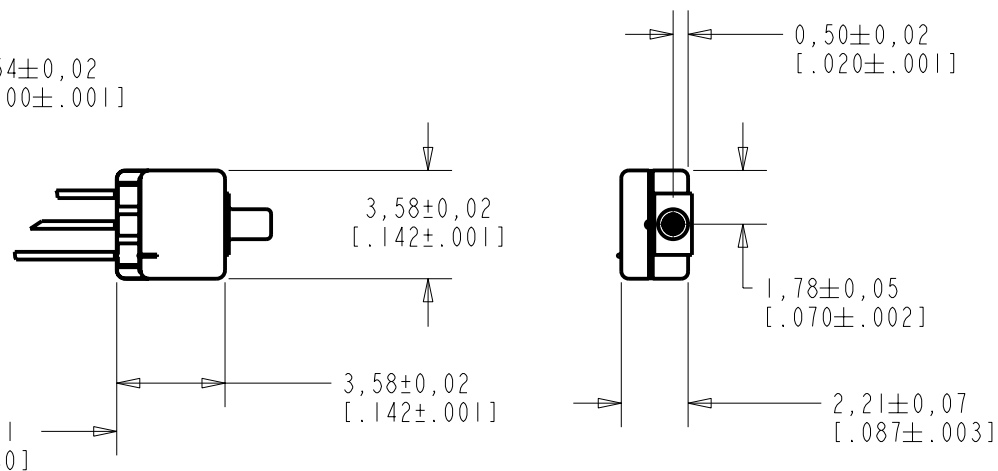
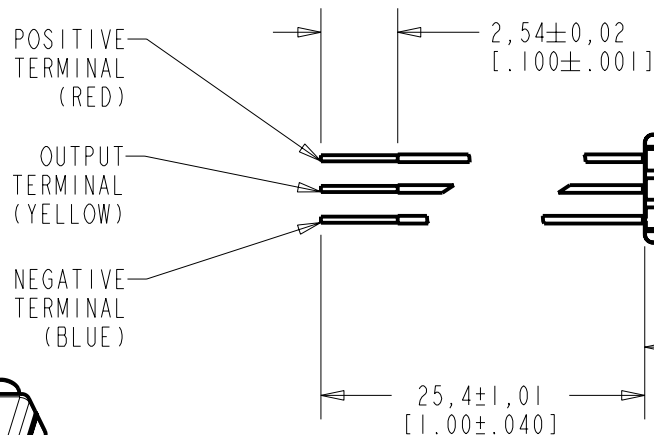
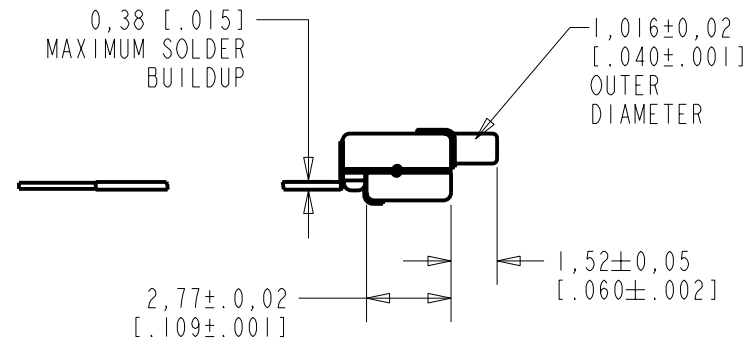


EM-23046-P16

SHT 1.1



NOMINAL WEIGHT  
.08 GRAMS

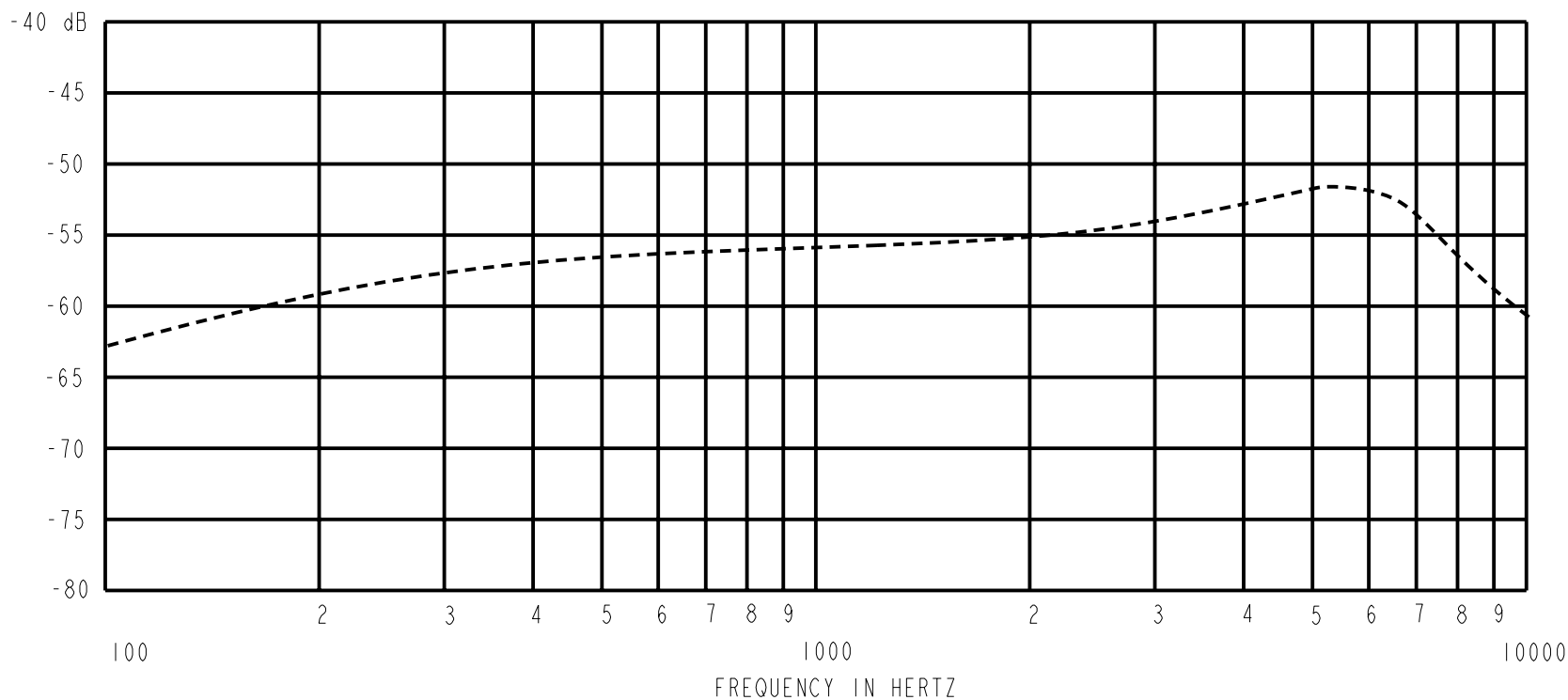
DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0101235	9-13-06	Released	A

SCALE: 4:1		DR. BY	DATE
DO NOT SCALE DRAWING		LSY	9-13-06
TITLE: MICROPHONE		CK. BY	DATE
OUTLINE DRAWING		GJP	9-14-06
EM-23046-P16		APP. BY	DATE
SHT 1.1		GJP	9-14-06

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SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M<sup>2</sup>)  
FOR CONDITIONS SHOWN BELOW.

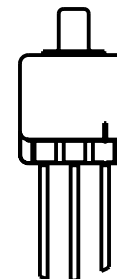
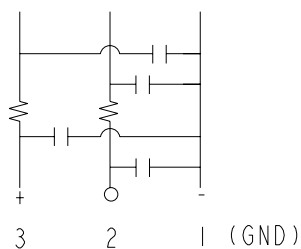


FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
100	---	-63.0	---	-10.0	-3.0
1000	-59.0	-56.0	-53.0	0.0	0.0
~5000	---	-51.5	---	+1.5	+7.5

- NOTES:
1. CASE CONNECT TO NEGATIVE TERMINAL.
  2. MICROPHONE TO BE FUNCTIONAL WITH 1.6 VDC SUPPLY.
  3. TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.03 dB/%RH
  4. SENSITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
  5. CAPACITANCE MEASUREMENT MADE WITH BOONTON 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 0.9 VDC	"A" WEIGHTED NOISE (1 kHz EQUIVALENT SPL)	OUTPUT IMPEDANCE OHMS (EACH HALF)			CAPACITANCE ± 50%	
					MIN.	NOM.	MAX.	1-2	1-3
12B	1.3V	50uA MAX.	3 dB MAX.	31.0 dB MAX.	2800	4400	6800	30pF±50%	30pF±50%

CAPACITANCE PROBE POINTS



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
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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

TITLE: **MICROPHONE**  
PERFORMANCE SPECIFICATION

**EM-23046-P16**  
SHT 2.1

DR. BY	DATE
LSY	9-13-06
CK. BY	DATE
GJP	9-14-06
APP. BY	DATE
GJP	9-14-06