

NOMINAL WEIGHT
.43 GRAM

DIMENSIONS IN MILLIMETERS [INCHES]

CO-30710-000

SHT 1.1

NOTES:

- 1 A POSITIVE GOING VOLTAGE AT THE POSITIVE TERMINAL RELATIVE TO THE NEGATIVE TERMINAL CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLETS.
- 2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.
- 3 IT IS IMPORTANT TO KEEP HOLE CLEAN AND CLEAR AT ALL TIMES. CLOGGING THE HOLE WILL CAUSE PERFORMANCE CHANGES.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C10112167	2-18-11	Active	B
A	C1011210	6-11-10		

SCALE:	3:1	DR. BY	DATE
	DO NOT SCALE DRAWING	LSY	6-11-10
TITLE:	RECEIVER	CK. BY	DATE
	CO-30710-000	GJP	6-17-10
	OUTLINE DRAWING	APP. BY	DATE
		GJP	6-17-10
		KELIASIZE.FRM	
		Rev. B	

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVERS INTENDED FOR USE AS THE HIGH AND LOW FREQUENCY DRIVERS IN A HI FI SYSTEM. THE GQ RECEIVER COMBINES A WBFK AND ED RECEIVERS COUPLED THROUGH A CIRCUIT TO PROVIDE THE RESPONSE SHAPE.

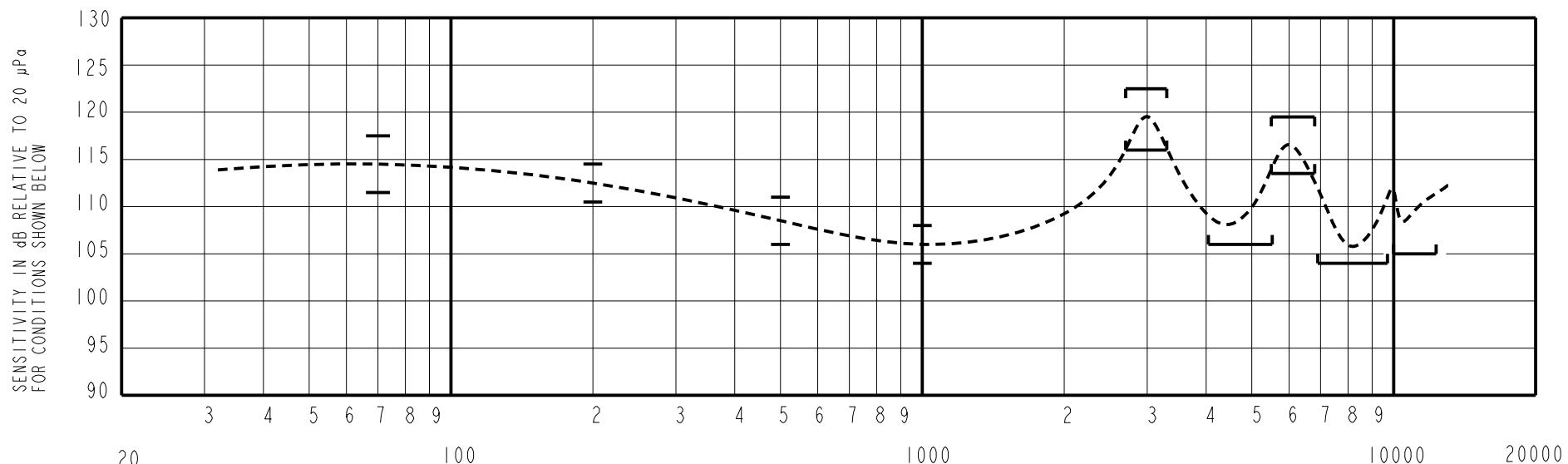
NO DAMPING

GQ-30710-000

SHEET 2.1

CONSTANT VOLTAGE DRIVE CONDITIONS

TESTED WITH VENT UNSEALED



ACOUSTICAL

SENSITIVITY

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 2. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20 μPa . ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
70	+5.5	+8.5	+11.5
200	+4.5	+6.5	+8.5
500	0.0	+2.5	+5.0
1000	-2.0	106.0	+2.0
2700 - 3300	+10.5	+13.5	+16.5
4050 - 5450	0.0	---	---
5400 - 6800	+7.5	+10.5	+13.5
6900 - 9600	-7.0	---	---
10000 - 13000	-6.0	---	---

TABLE 1

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.146 V rms, 0 V DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	7 X 2 mm + 0.188cc CAVITY
COUPLER CAVITY	IEC 60318-4 ("711")
TEST STATION	FCART

TABLE 2

ELECTRICAL

DC RESISTANCE	25.4 Ohms \pm 10%
IMPEDANCE @ 500 Hz	51.7 Ohms \pm 15%
IMPEDANCE @ 1kHz	90.0 Ohms \pm 15%

TABLE 3

MAXIMUM TOTAL HARMONIC DISTORTION
6% AT 1000 Hz AT 100 dB SPL

MECHANICAL

PORT LOCATION: 12S

SOLDER TYPE: SAC305 (LEAD FREE)

TEMPERATURE:

OPERATING: SENSITIVITY AT 1K Hz WILL NOT VARY
MORE THAN $\pm 1/3$ dB FROM 17°C TO 63°C.

STORAGE: -40°C TO 63°C.

ISOLATION: CASE WILL BE ELECTRICALLY ISOLATED FROM THE COIL CIRCUIT.

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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

DR. BY	DATE
LSY	6-11-10
CK. BY	DATE
GJP	6-17-10
APP. BY	DATE
GJP	6-17-10

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ITASCA, ILLINOIS U.S.A.

TITLE: RECEIVER CQ-30710-000
PERFORMANCE SPECIFICATION SHT 2.1

Mouser Electronics

Authorized Distributor

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