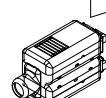
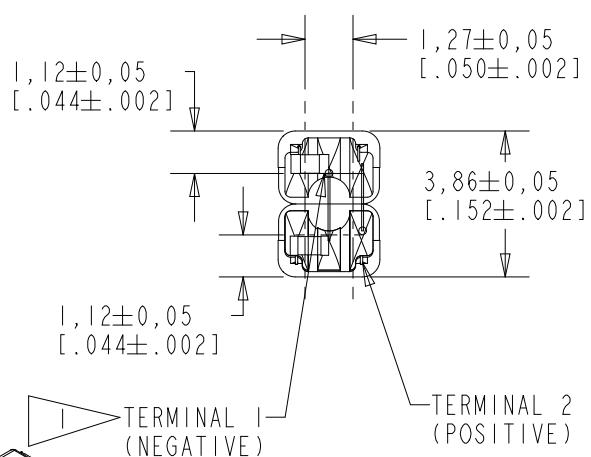
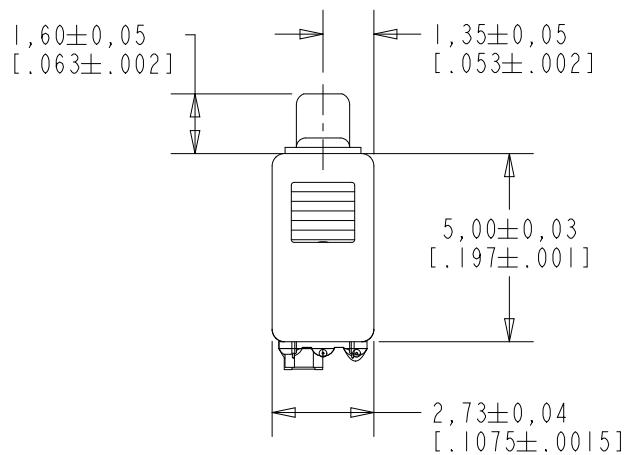


TWFK-31129-000

SHT 1.1



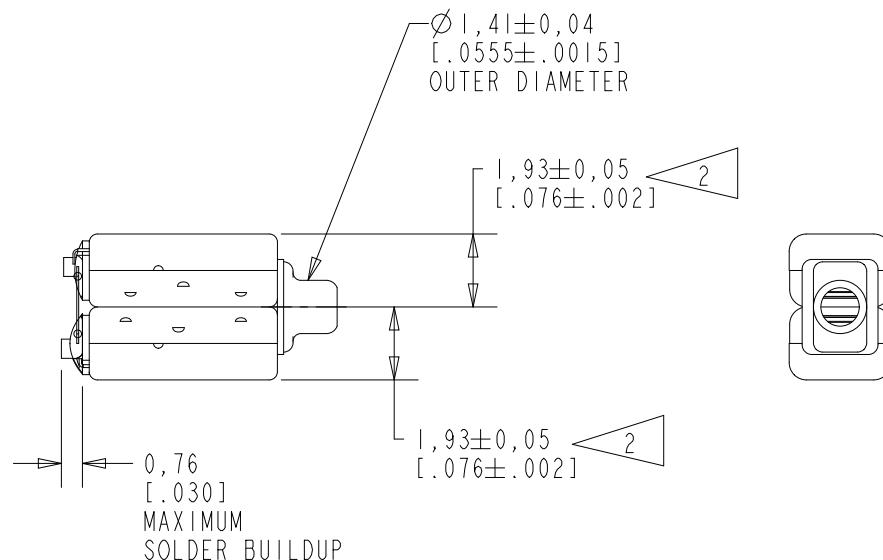
SCALE 2:1
NOMINAL WEIGHT
.22 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

NOTES:

1 A POSITIVE GOING VOLTAGE AT TERMINAL 2, RELATIVE TO TERMINAL 1, CAUSES A DECREASE IN PRESSURE AT THE SOUND OUTLET.

2 LOCATED FROM TWO SURFACES FOR CUSTOMER CONVENIENCE. ONLY APPLICABLE FROM ONE SURFACE, NOT TO BE USED TOGETHER.



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
C	P10003586	11-18-19	Active	C
B	P10000650	1-18-17		
A	C10111527	12-8-10		

SCALE:	5:1	DR. BY	DATE
	DO NOT SCALE DRAWING	LSY	12-8-10
TITLE:	RECEIVER	CK. BY	DATE
	TWFK-31129-000	GJP	12-15-10
	OUTLINE DRAWING	APP. BY	DATE
		GJP	12-15-10
		KELIASIZE.FRM	
		Rev: B	

KNOWLES CORPORATION

UNDAMPED MAGNETIC BALANCED ARMATURE RECEIVERS INTENDED FOR USE AS THE MID AND HIGH FREQUENCY DRIVES. THE TWFK IS A WIDEBAND FK AND FK RECEIVER PAIR WITH AN EXTENDED HIGH FREQUENCY RESPONSE AND SHOCK PROTECTION.

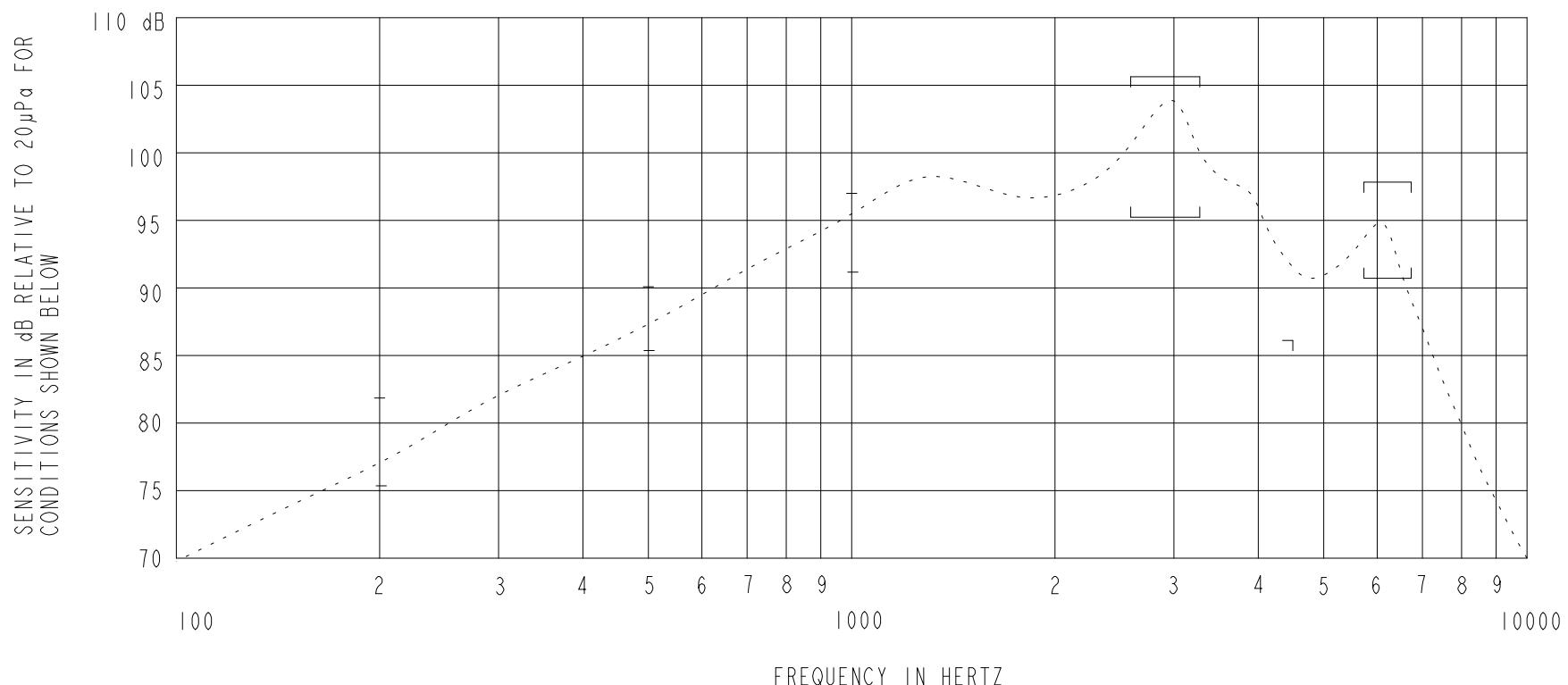
UNDAMPED

TWFK-31129-000

SHEET 2.1

NOTE: SPECIFICATIONS FOLLOWED BY AN ASTERISK (*) ARE 100% TESTED.

CONSTANT VOLTAGE DRIVE CONDITIONS.



ACOUSTICAL

SENSITIVITY*

DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITION IN TABLE 3. NOMINAL SENSITIVITY AT 1kHz IS dB RELATIVE TO 20 μ Pa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1kHz.

FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
200	-19.0	-16.0	-13.0
500	-9.0	-7.0	-5.0
1000	-2.0	95.0	+2.0
2630-3230	+5.0	+8.0	+11.0
4500	-8.0	---	---
5750-6750	-3.0	0.0	+3.0

TABLE 1

TOTAL HARMONIC DISTORTION*

DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (V rms)	DC BIAS (mA)	LIMIT (%)
930	.085	0	5
1400	.085	0	5
500	.240	0	10

TABLE 2

TEST CONDITIONS

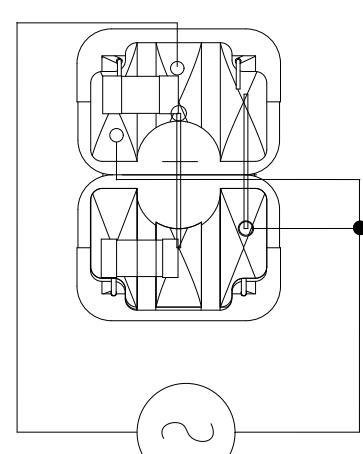
NOMINAL SOURCE VOLTAGE	.085 V rms, 0 V DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	10mm [.394"] LONG, 1mm [.039"] I.D.
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE	25 Ohms FK / 12.5 Ohms WBFK
IMPEDANCE @ 500 Hz	62.5 Ohms \pm 15%
IMPEDANCE @ 1kHz	35.5 Ohms \pm 15%

TABLE 4



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

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION		
C	P10003586	11-18-19	Active	C		
B	P10000650	1-18-17				
A	C10111527	12-8-10				
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: RECEIVER						
TWFK-31129-000						
PERFORMANCE SPECIFICATION						
SHT 2.1						