

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

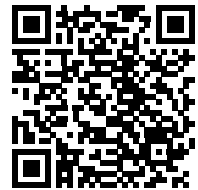
Part Number: RAQ-33985-B148
Manufacturer: Knowles
Package: Bulk
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/knowles/raq-33985-b148.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

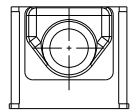
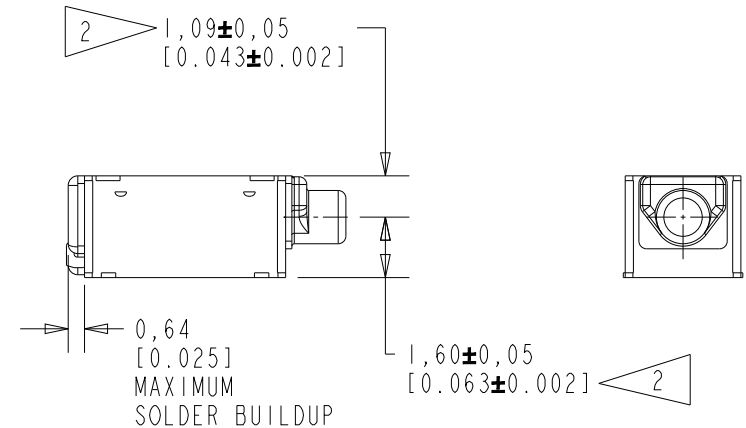
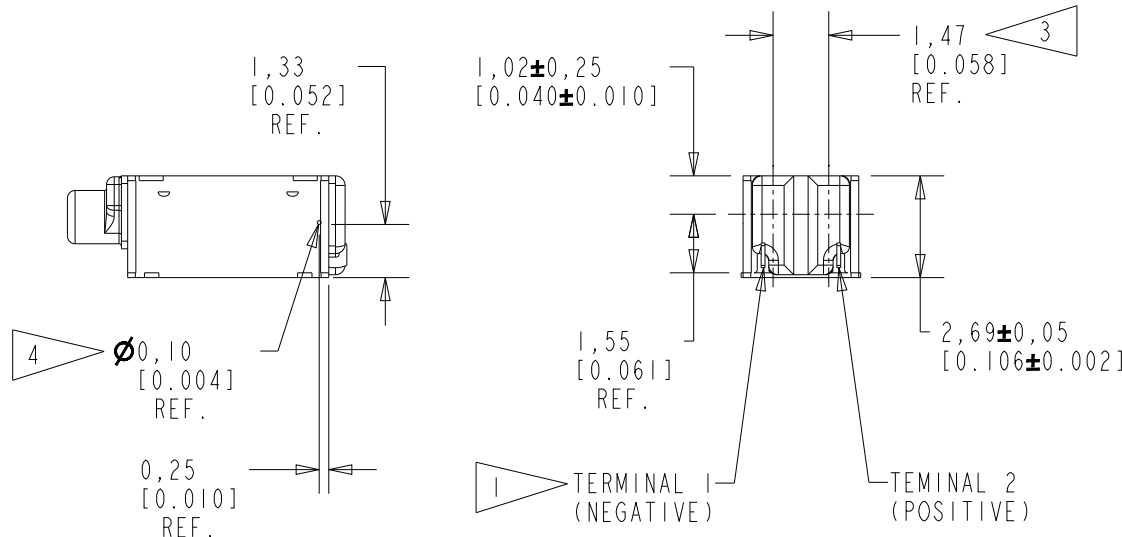
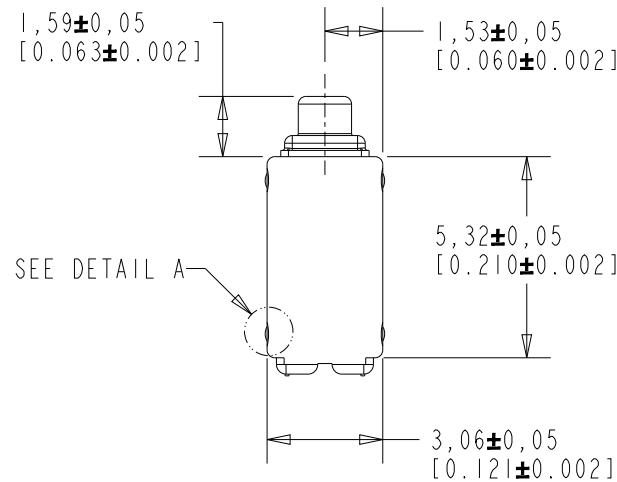
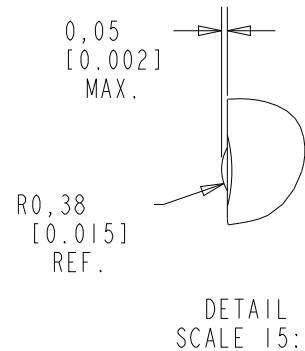
Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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 ONE SURFACE, NOT TO BE USED TOGETHER.
- 3 DIMENSION TO APPROXIMATE CENTER OF TERMINAL PAD.
- 4 IT IS IMPORTANT TO KEEP VENT HOLE CLEAR AT ALL TIMES. CLOGGING OF HOLE WILL CAUSE PERFORMANCE CHANGES.



SCALE 3:2

DIMENSIONS IN MILLIMETERS [INCHES]



REVISION	ECR NO.	IMP. DATE	SCALE	DR. BY	DATE
			6:1	JDB	2-27-20
				CH. BY	DATE
				APP. BY	DATE
RELEASE LEVEL		REVISION	DO NOT SCALE DRAWING		
Design		1	DIMENSIONS IN MILLIMETERS [INCHES]		
TITLE:			RAQ-33985-B148		
RECEIVER			SHEET 1.1		
OUTLINE DRAWING			Rev: B		

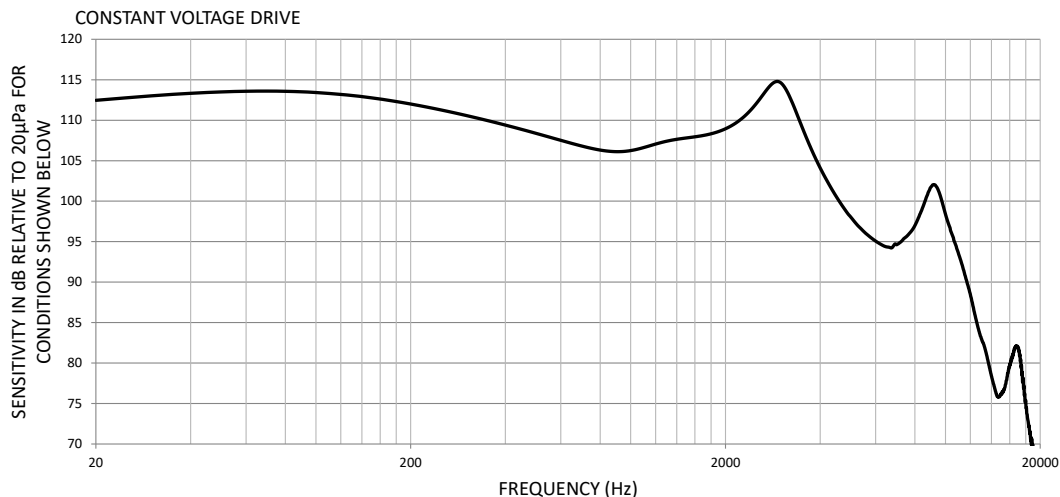
THIS IS AN UNDAMPED MAGNETIC BALANCED ARMATURE
RECEIVER INTENDED FOR USE IN EARPHONE APPLICATIONS.

NO DAMPING

RAQ-33985-B148

Sht 2.1

RoHS Compliant



ACOUSTICAL

SENSITIVITY: DEVICE WILL PRODUCE THE SPL LISTED BELOW WITH THE TEST CONDITIONS DESCRIBED IN TABLE 3. NOMINAL SENSITIVITY AT 1000 Hz IS dB RELEVATE TO 20 µPa. ALL OTHER VALUES IN dB RELATIVE TO THE SENSITIVITY AT 1000 Hz.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
REL	20	0.0	4.0	8.0
REL	100	3.0	7.0	11.0
REL	200	2.0	5.0	8.0
REL	500	-0.5	1.5	3.5
REF	1000	-2.0	106.2	+2.0
PEAK 1	2620-3220	6.5	9.5	12.5
VALLEY	5930-7530	+15		
PEAK2	8000-11000	-12.0	-7.0	-2.0

TABLE 1

TOTAL HARMONIC DISTORTION: DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW:

FREQUENCY (Hz)	AC DRIVE (Vrms)	BIAS	LIMIT (%)
50	0.115	0	5
0.333*PEAK1	0.115	0	5
0.5*PEAK1	0.115	0	5
0.333*PEAK1	0.324	0	10
0.5*PEAK1	0.324	0	10

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.115 Vrms
SOURCE IMPEDANCE	<1 Ohm
TUBING	0 mm, excluding receiver tubing
COUPLER CAVITY	IEC60318-4 (GRAS RA0402)

TABLE 3

Knowles reserves the right to make changes to improve reliability and performance of the product.

TENTATIVE

Specifications for laboratory produced samples.

Knowles Corporation

Revision	C.O. #	Implementation Date	Release level	Revision	
			Design	1	
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
				Ck by	Date
Receiver Performance Specification			RAQ-33985-B148		
			Sht 2.1	App by	Date

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Template Revision

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