



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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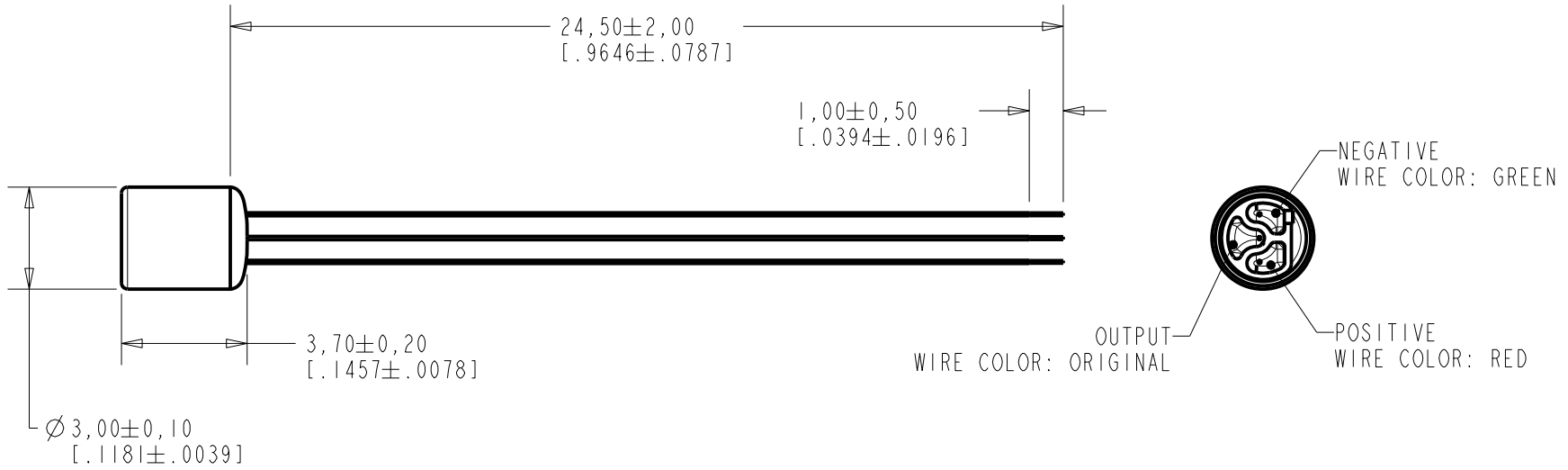
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VFG-30747-000
SHT 1.1



NORMAL WEIGHT IS 0.085g

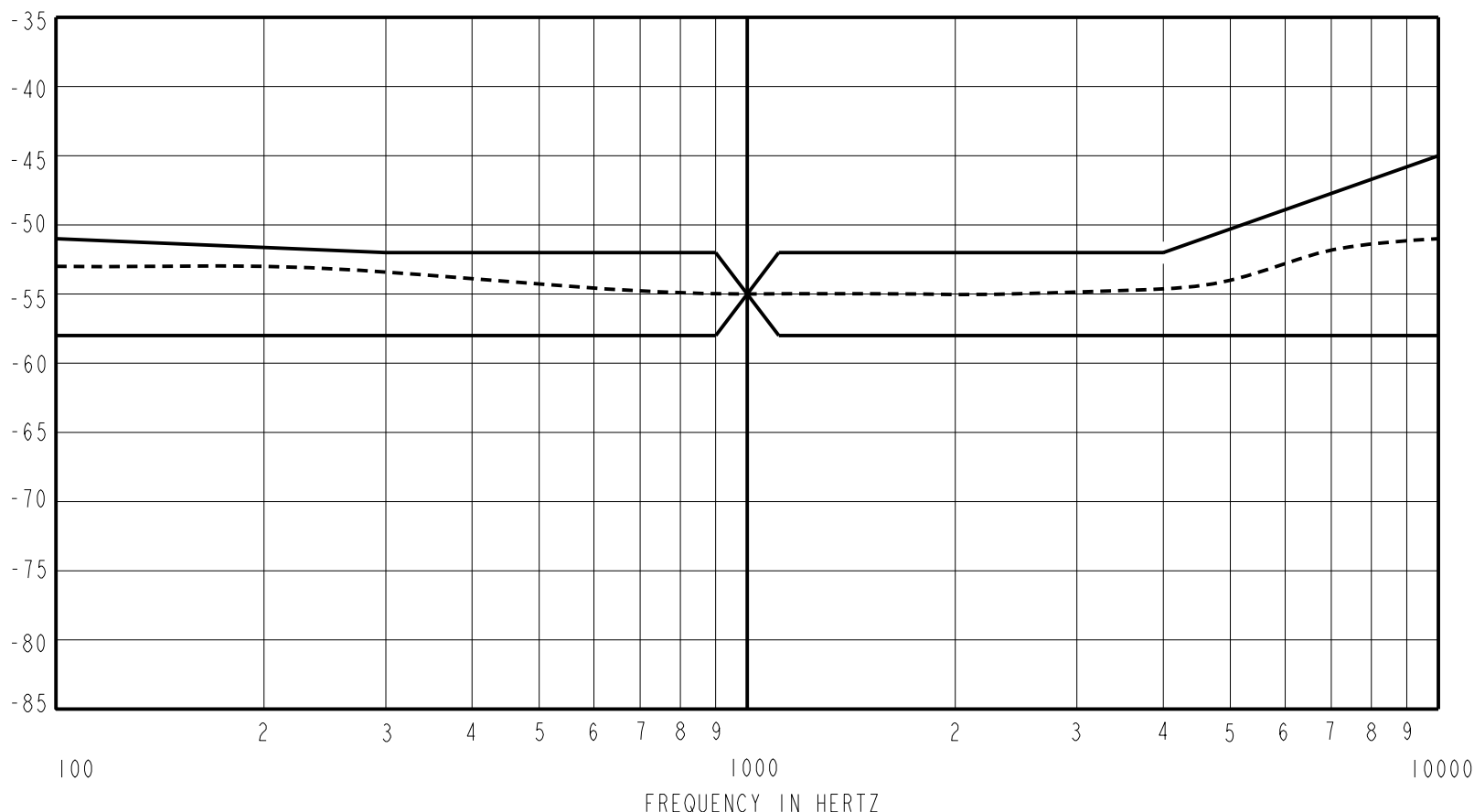
DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
B	C40101001	5-03-12	Active	B
A	C40100953	3-26-12		

KNOWLES ACOUSTICS
ITASCA, ILLINOIS U.S.A.

SCALE: 5:1		DR. BY: LSY	DATE: 3-26-12
DO NOT SCALE DRAWING		CK. BY: GJP	DATE: 3-27-12
TITLE: MICROPHONE ASSEMBLY		APP. BY: GJP	DATE: 3-27-12
VFG-30747-000		SHT 1.1	
OUTLINE DRAWING			

SENSITIVITY IN dB RELATIVE TO 1.0 VOLT/0.1 Pa (N/M²)
FOR CONDITIONS SHOWN BELOW.



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1kHz	
100	---	-53	---	-3.0	+4.0
300	---	-53	---	-3.0	+3.0
1000	-58	-55	-52	0.0	0.0
4000	---	-54	---	-3.0	+3.0
10000	---	-52	---	-3.0	+10.0

NOTES:

- MICROPHONE TO BE FUNCTIONAL WITH 3.0 VDC SUPPLY.
- TYPICAL SENSITIVITY TO HUMIDITY AT 1000Hz IS 0.06 dB/%RH
- SENITIVITY AND NOISE VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.

PORT LOCATION	DC SUPPLY	AMPLIFIER CURRENT DRAIN	SENSITIVITY CHANGE ON REDUCING SUPPLY TO 0.9VDC	"A" WEIGHTED NOISE [1 kHz EQUIV. SPL]	OUTPUT IMPEDANCE OHMS		
					MIN.	NOM.	MAX.
12S	1.3V	0.05mA MAX.	3dB MAX.	30dB MAX.	2800	4400	6800

- SURVIVES SUBMERSION IN 1m OF WATER FOR 30 MINUTES AND PASS FUNCTIONAL TEST, SENSITIVITY WITHIN 3dB OF INITIAL SENSITIVITY.

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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 ASSEMBLY** **VFG-30747-000**
PERFORMANCE SPECIFICATION **SHT 2.1**

DR. BY	DATE
LSY	3-26-12
CK. BY	DATE
GJP	3-27-12
APP. BY	DATE
GJP	3-27-12