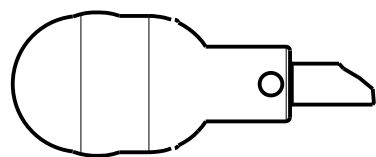


FB-EM-30346-000

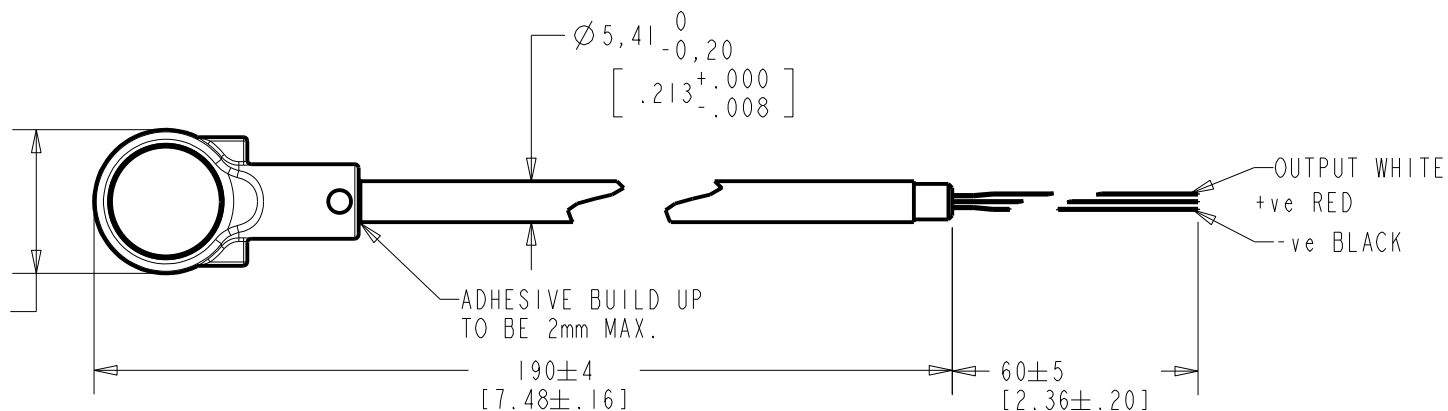
SHT 1.1

RED CONTROLLED

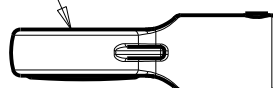


TOP VIEW
W/WINDSHIELD SHOWN
SCALE 1:1

$\varnothing 19,0 \pm 0,3$
[.748 $\pm$.012]



PLASTIC HOUSING, BLACK



WIRES
2mm STRIPPED & TINNED ENDS

WIRE COLOR			WEIGHT GRAMS
+ve	OUTPUT	-ve	
RED	WHITE	BLACK	---

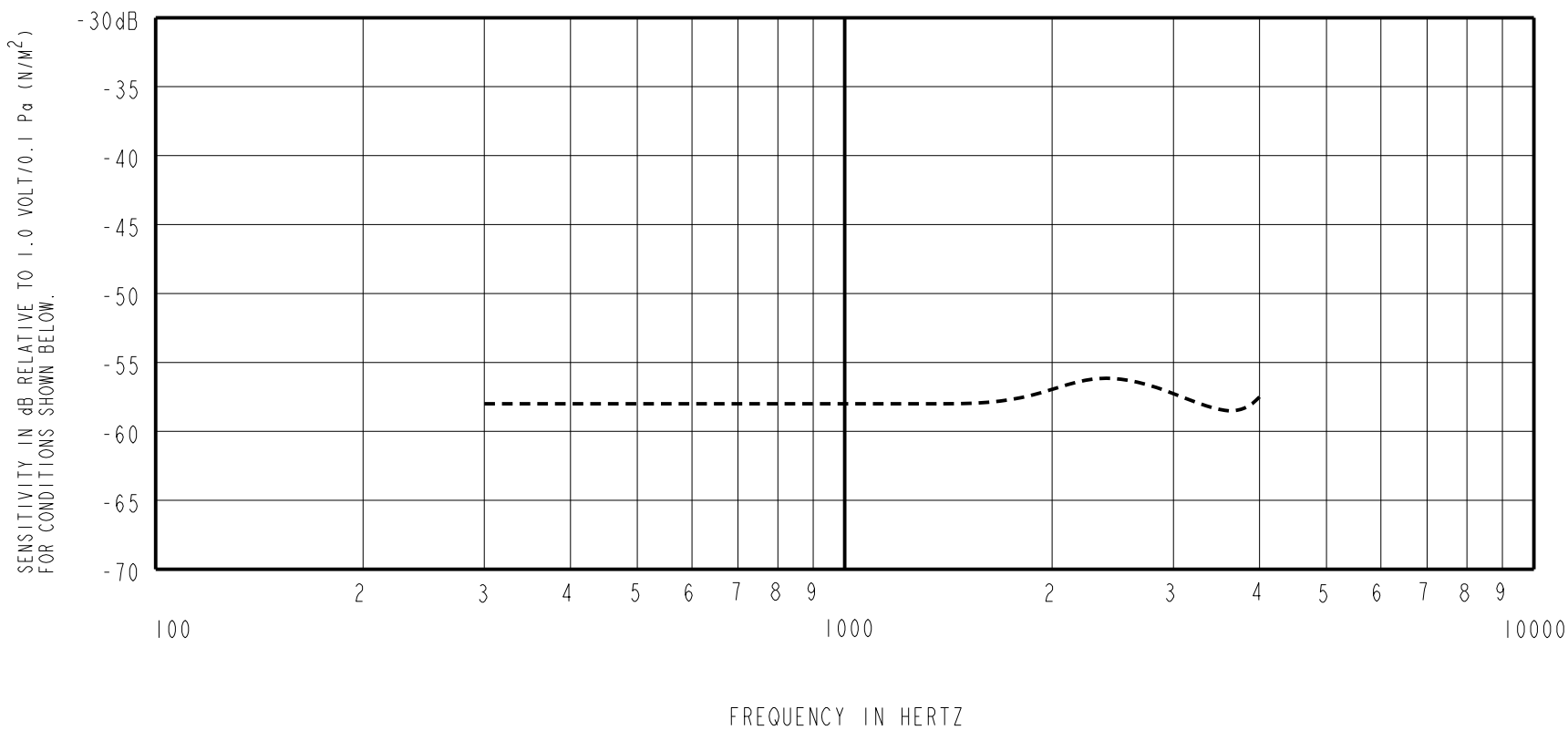
DIMENSIONS IN MILLIMETERS [INCHES]

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C40101206	3-6-13		
SCALE: 1:1			DR. BY TT	DATE 6-26-08
DO NOT SCALE DRAWING			CK. BY GJP	DATE 7-15-08
TITLE: BOOM MICROPHONE			APP. BY GJP	DATE 7-15-08
OUTLINE DRAWING			SHT 1.1	

KE111ASIZE.FRM

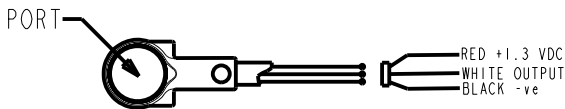
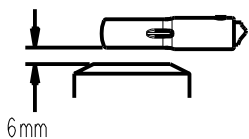
Rev: B



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY RANGE OF DEVIATION FROM 1KHz	
	MIN.	NOM.	MAX.		
300	---	-48.0	---	-3.0	+3.0
1000	-51.0	-48.0	-45.0	0.0	0.0
4000	---	-47.0	---	-3.0	+5.0

NOTES:

- MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
- SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- TEST CONDITIONS:
HEAD OF BOOM EXPOSED TO 74 dBSPL SWEPT SOUND FIELD AT 6mm FROM VOICE APERTURE.
ARTIFICIAL VOICE:
B & k 4227 MOUTH SIMULATOR.
- FOR MICROPHONE CAPSULE SPEC. SEE DRAWING EK-23132-C36 SHEET 2.1.
- SURVIVES SUBMERSION IN 1m OF WATER FOR 30 MINUTES; SENSITIVITY WITHIN 3dB OF INITIAL SENSITIVITY AFTER DRIED FOR 30 MINUTES AT ROOM TEMPERATURE.



LEAD IDENTIFICATION
& TEST CIRCUIT

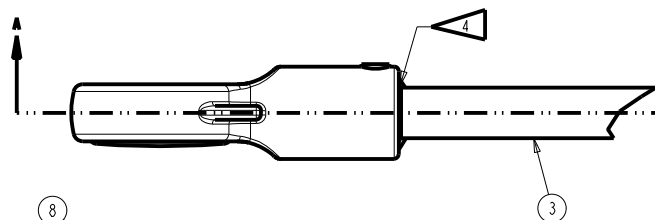
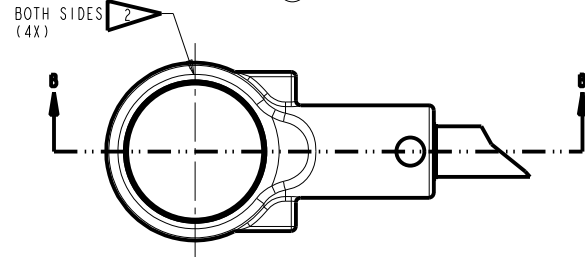
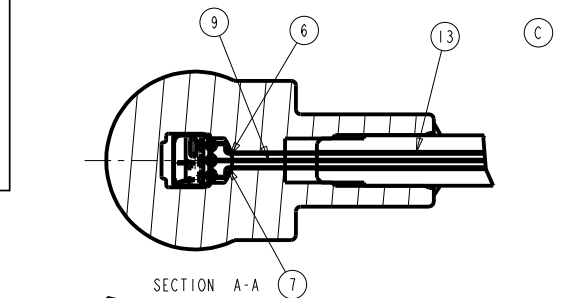
RED CONTROLLED

KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

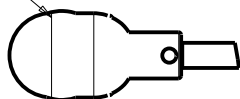
Revision	C.O. #	Implementation Date	RELEASE LEVEL		REVISION
			Active		D
D	C40101206	3-6-13			
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION				DR. BY	DATE
				TT	6-26-08
TITLE: BOOM MICROPHONE PERFORMANCE SPECIFICATION				CK. BY	DATE
				GJP	7-15-08
FB-EM-30346-000 SHT 2.1				APP. BY	DATE
				GJP	7-15-08

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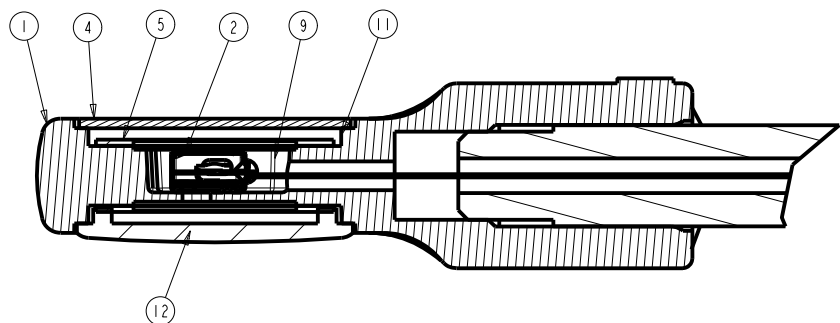
FB-EM-30346-000



TOP VIEW
W/WINDSHIELD SHOWN
SCALE 1:1



RED CONTROLLED



SECTION B-B
SCALE 4:1

DIMENSIONS IN MILLIMETERS [INCHES]

MATERIAL						SEE BILL OF MATERIALS				FINISH				SCALE: 2:1				DO NOT SCALE DRAWING			
REF.	10-1747	A	C10107379	B	C10107748	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES THIRD ANGLE PROJECTION KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A. BOOM MICROPHONE ASSEMBLY FB-EM-30346-000										DR. BY	DATE				
	RENAME IN PROVE FROM FB-30346-000 TO FB-EM-30346-000 11-8-12-08				TT											6-26-08					
	C				C40100518											CH. BY	DATE				
	SEE SHEET 4.1 00 11-24-10				GJP											7-15-08					
	D				C40101206											APP. BY	DATE				
UPDATE THE REVISION 00 3-4-13																GJP	7-15-08				
																SHEET 3.1					

NOTES:

- ITEM NUMBERS (SHOWN THUS **b**) ON DRAWING CORRESPOND WITH ITEM NUMBERS ON BILL OF MATERIAL.
- ATTACH ITEM **4** TO ITEM **1** IN 4 PLACES MINIMUM ON EACH SIDE USING CEMENT.
- SEAL BOOM END WITH ITEM **10**. BUILD UP TO BE 2mm MAX.
- SEAL WHOLE HEAD CAVITY WITH ITEM **9**. WIRE HOLE MUST BE FILLED, ADHESIVE BUILD UP TO BE 2mm MAX.

D
C
C
C

FB-EM-30346-000			KNOWLES ELECTRONICS			FB-EM-30346-000				
Sheet 4.1			ITASCA, ILLINOIS U.S.A.			Sheet 4.1				
By TT Date 6-26-08			Subject: BOOM MICROPHONE ASSEMBLY			Revision				
Ch. GJP 7-15-08						D		Release Level		
App. GJP 7-15-08								Active		
COL. 1			2		3		4			
Part or Dwg. no.			Tot. Req.		Nomenclature:		Applicable Specs or Remarks		Item No. Line No.	
FB-218-500			1		HOUSING				1 1	
EK-23132-C36			1		MICROPHONE ASSEMBLY				2 2	
FB-189-167			1		FLEXIBLE BOOM 5.4 mm				3 3	
FB-223			1		SCREEN DISC				4 4	
FB-234			1		MEMBRANE				5 5	
FB-074-000			1		WIRE BLACK				6 6	
FB-074-001			1		WIRE RED				7 7	
FB-042			1		WINDSHIELD				8 8	
13-092-120101			A/R		CEMENT				9 9	
13-591			A/R		SILICONE SEALANT				10 10	
13-092-130102			A/R		CEMENT				11 11	
FB-219			1		COVER, BOTTOM				12 12	
FB-074-003			1		WIRE WHITE				13 13	

RED CONTROLLED

REVISION	A	c.o.	C10107379	FB-074-000 WAS FB-070-050 FB-074-001 WAS FB-070-049 ADD FB-074-003 00 11-24-10	C	c.o.	C40100518	FB-234 WAS FB-038 00 3-4-13	D	c.o.	C40101206	FB-EM-30346-000 Sheet 4.1
	B	c.o.	C10107748			c.o.	C40100518			c.o.	C40101206	
	RENAME IN PRO/E FROM FB-30346-000 TO FB-EM-30346-000 11 8-12-08											
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ITEM: 1004 PART: 000 PMW REV: 0