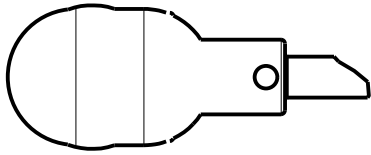


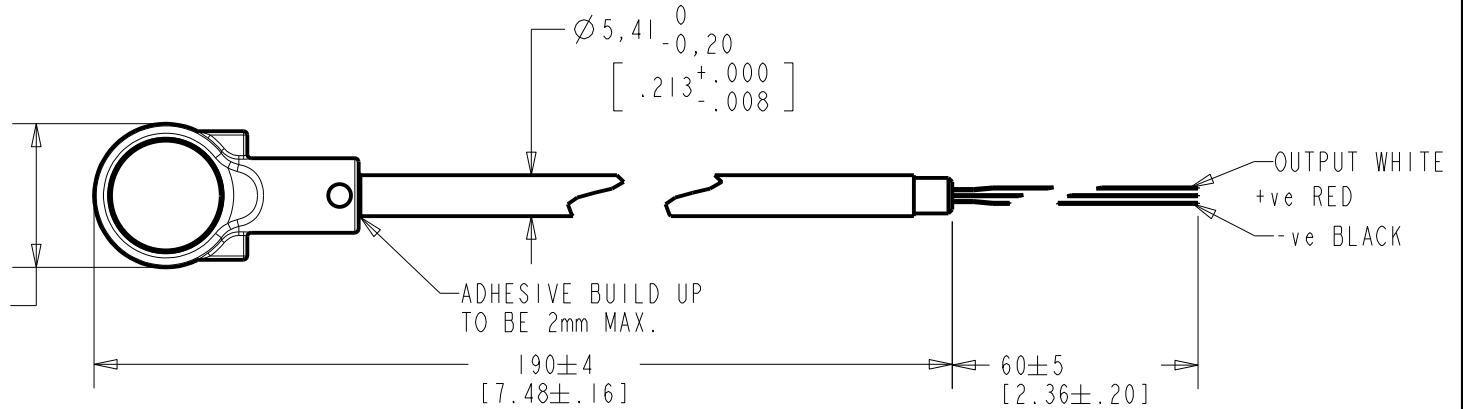
FB-EM-30346-000  
SHT 1.1

**RED CONTROLLED**

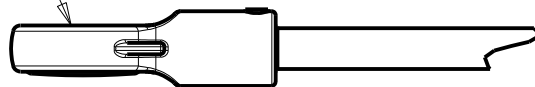
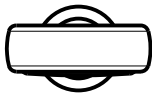


TOP VIEW  
W/WINDSHIELD SHOWN  
SCALE 1:1

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



PLASTIC HOUSING, BLACK



WIRES  
2mm STRIPPED & TINNED ENDS

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

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			Active	D
D	C40101206	3-6-13		

SCALE:

1:1

DO NOT SCALE DRAWING

TITLE:

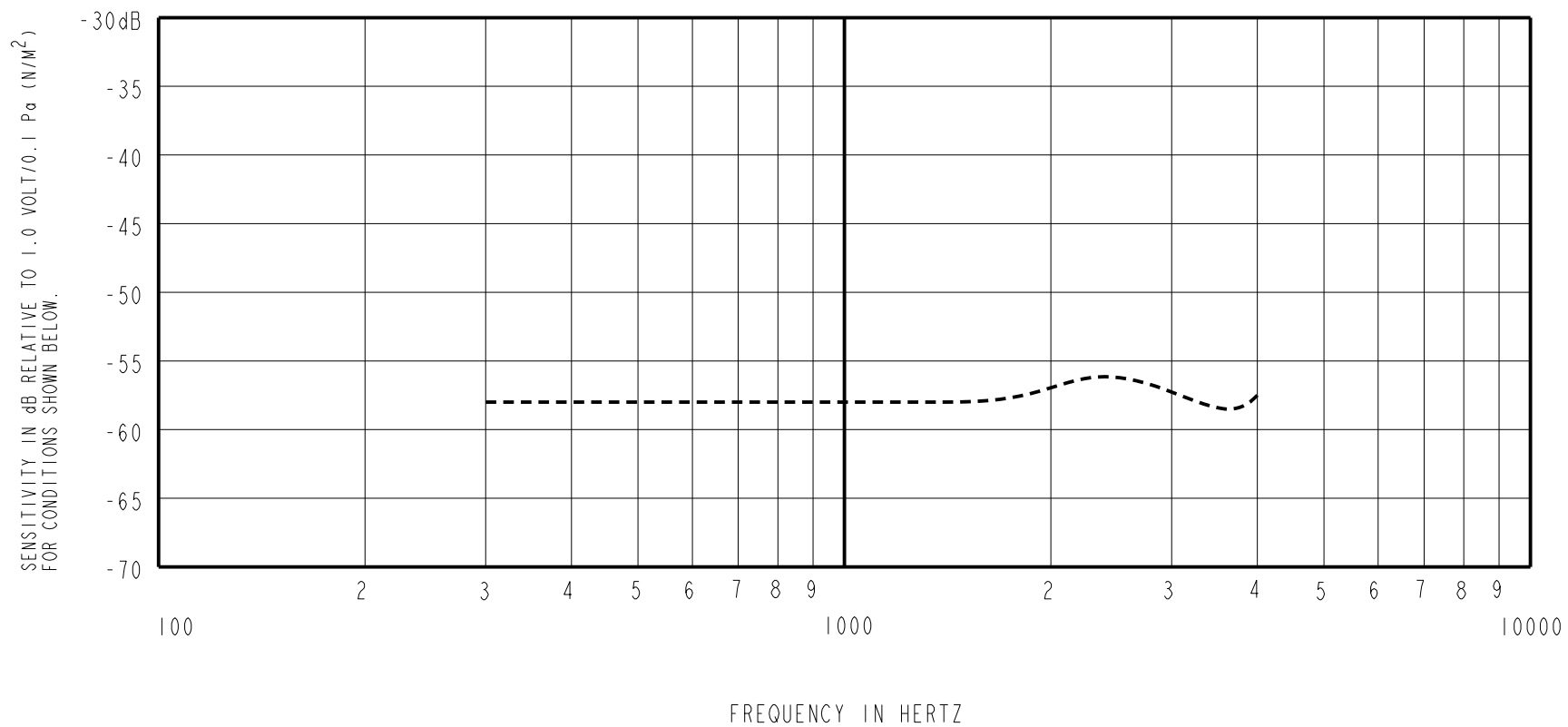
**BOOM MICROPHONE** FB-EM-30346-000

OUTLINE DRAWING

SHT 1.1

DR. BY	DATE
TT	6-26-08
CK. BY	DATE
GJP	7-15-08
APP. BY	DATE
GJP	7-15-08

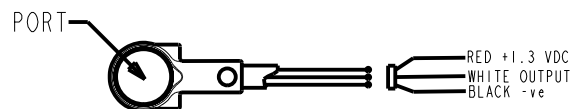
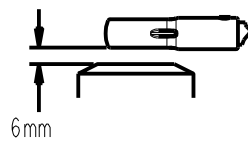
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.



FREQUENCY	SENSITIVITY			DEVICE CONFORMITY	
	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1KHz	
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:

1. MICROPHONE TO BE FUNCTIONAL WITH 10 VDC SUPPLY.
2. SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
3. TEST CONDITIONS:  
HEAD OF BOOM EXPOSED TO 74 dB SPL SWEPT SOUND FIELD AT 6mm FROM VOICE APERTURE.  
ARTIFICIAL VOICE:  
B & k 4227 MOUTH SIMULATOR.
4. FOR MICROPHONE CAPSULE SPEC. SEE DRAWING EK-23132-C36 SHEET 2.1.
5. 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**

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
			<b>Active</b>	<b>D</b>
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				
TITLE: <b>BOOM MICROPHONE</b>			<b>FB-EM-30346-000</b>	DR. BY TT DATE 6-26-08
PERFORMANCE SPECIFICATION			<b>SHT 2.1</b>	CK. BY GJP DATE 7-15-08
				APP. BY GJP DATE 7-15-08

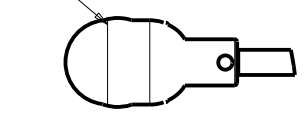
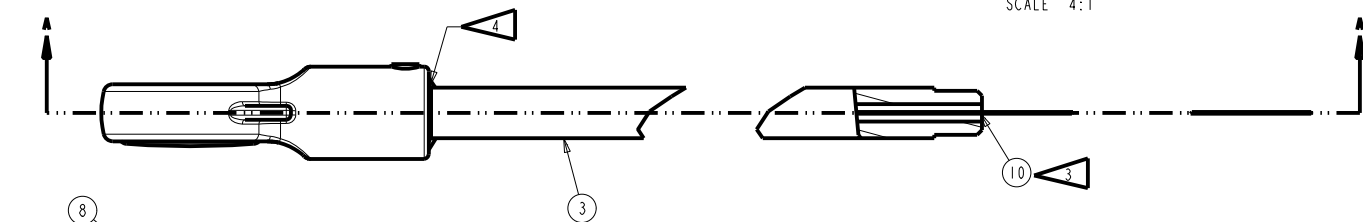
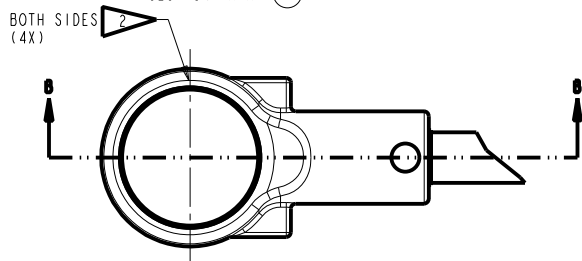
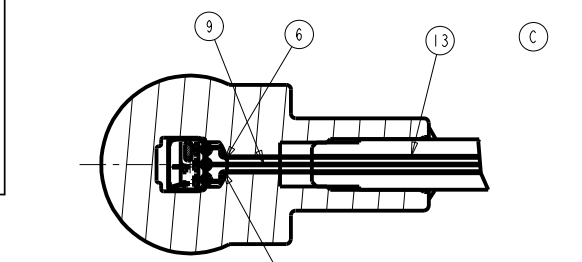
**KNOWLES ELECTRONICS**  
ITASCA, ILLINOIS U.S.A.

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FB-EM-30346-000

**RED CONTROLLED**

- 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.



DIMENSIONS IN MILLIMETERS [INCHES]

MATERIAL		SEE BILL OF MATERIALS		FINISH	
REF.	10-1747	A	C10107379		
		B	C10107748		
		RENAME IN PROZE FROM FB-30246-000 TO FB-EM-30346-000 10-8-12-08			
		C	C40100518		
		SEE SHEET 4-1 00 11-24-10			
		D	C40101206		
		UPDATE THE REVISION 00 3-4-13			

KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.	
TITLE <b>BOOM MICROPHONE ASSEMBLY</b>	

RELEASE LEVEL <b>Active</b>	REVISION <b>D</b>
SCALE: <b>2:1</b>	DO NOT SCALE DRAWING
DR. BY <b>TT</b>	DATE <b>6-26-08</b>
CH. BY <b>GJP</b>	DATE <b>7-15-08</b>
APP. BY <b>GJP</b>	DATE <b>7-15-08</b>
SHEET <b>3.1</b>	

KA131.BSIZE.FRM REV: B

<b>FB-EM-30346-000</b>	<b>KNOWLES ELECTRONICS</b> <b>ITASCA, ILLINOIS U.S.A.</b>	<b>FB-EM-30346-000</b>
Sheet <b>4.1</b>		Sheet <b>4.1</b>
Dr. By TT Date 6-26-08	Subject: <b>BOOM MICROPHONE ASSEMBLY</b>	Revision
Ch. GJP 7-15-08		<b>D</b>
App. GJP 7-15-08		Release Level <b>Active</b>

COL. 1	2	3	4	Item No.	Line No.
Part or Dwg. no.	Tot. Req.	Nomenclature:	Applicable Specs or Remarks		
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

D  
C  
C  
  
  
  
  
  
  
  
  
C

RED CONTROLLED

REVISION	A c.o. C10107379 B c.o. C10107748 RENAME IN PRO/E FROM FB-30346-000 TO FB-EM-30346-000 TT 8-12-08 C c.o. C40100518 FB-074-000 WAS FB-070-050 FB-074-001 WAS FB-070-049 ADD FB-074-003 00 11-24-10 D c.o. C40101206 FB-234 WAS FB-038 00 3-4-13	<b>FB-EM-30346-000</b> <b>Sheet 4.1</b> <div style="border: 1px solid black; padding: 2px; font-size: 0.8em; margin-top: 10px;">           PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTY OF KNOWLES ELECTRONICS, LLC. OR ITS AFFILIATED ENTITIES. IT IS ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE REPRODUCED, COPIED, USED, OR DISCLOSED TO ANY THIRD PARTY PARTIALLY OR WHOLLY IN ANY MANNER WITHOUT PRIOR WRITTEN PERMISSION OF, AND MUST BE RETURNED UPON REQUEST BY, KNOWLES ELECTRONICS, LLC.         </div>
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REF: BOOM-PART-000-FRM REV: 0