



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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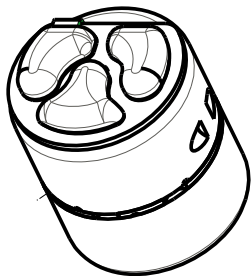
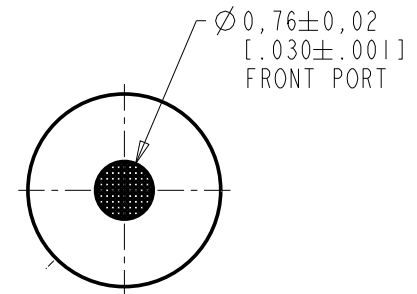
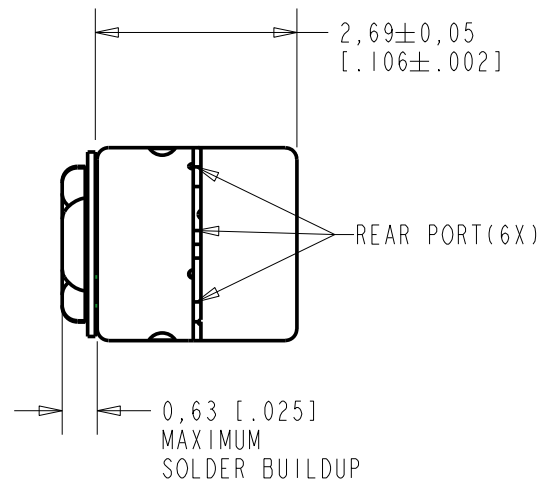
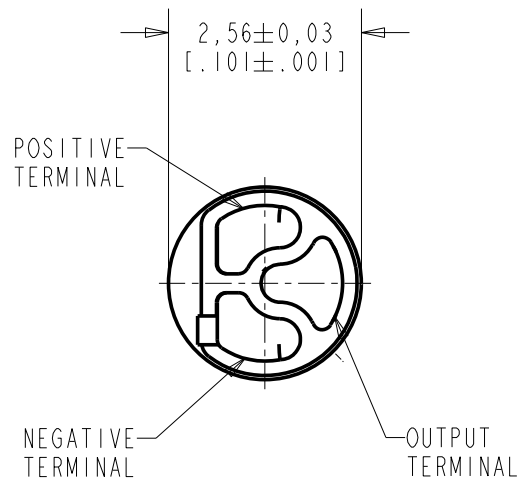


DFC-30852-000

SHT 1.1

NOTES:

- INCREASED PRESSURE AT THE SOUND INLET CAUSES A POSITIVE GOING VOLTAGE TO APPEAR AT THE OUTPUT TERMINAL, RELATIVE TO THE NEGATIVE TERMINAL.



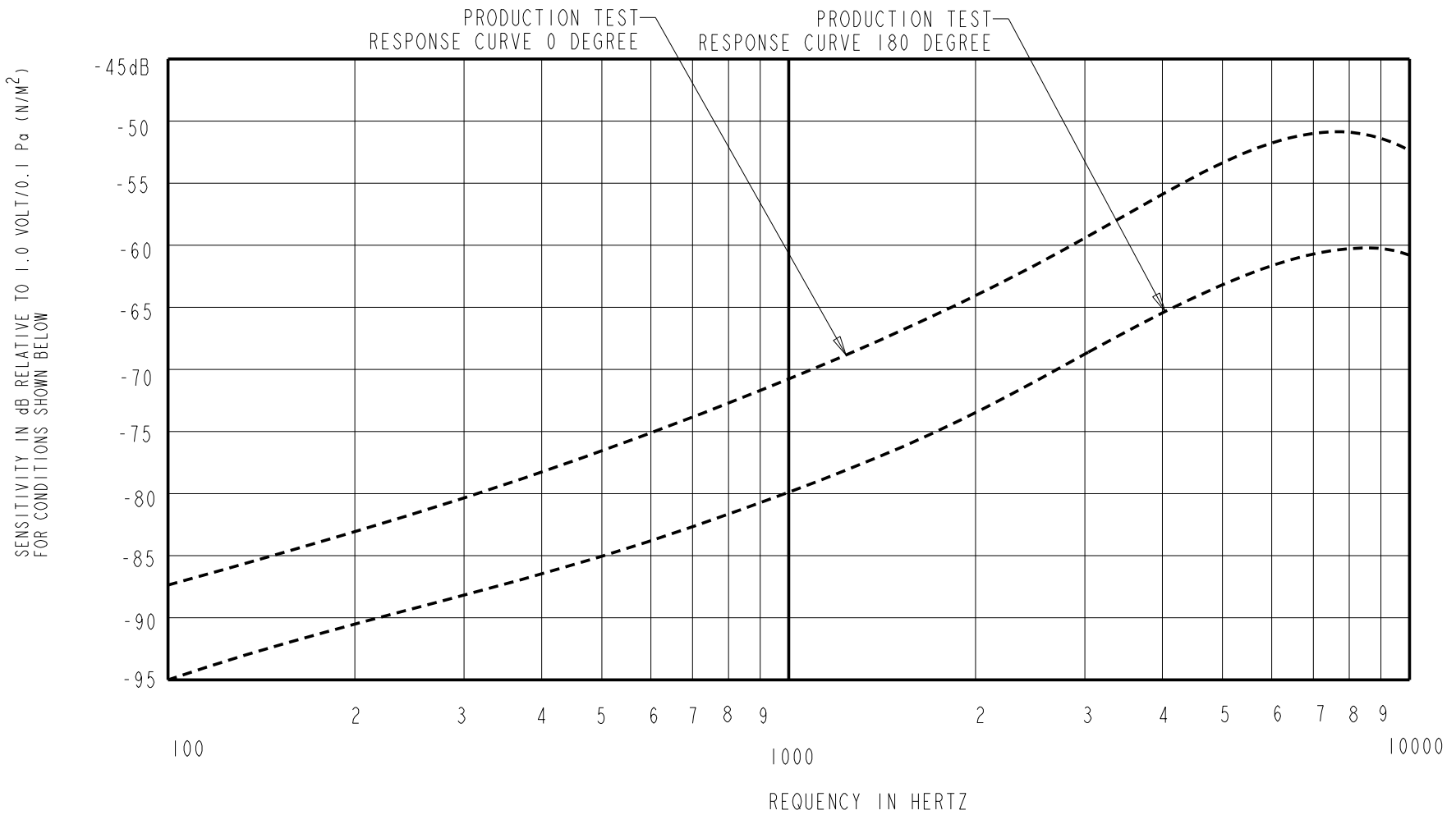
NOMINAL WEIGHT
0.04 GRAMS

DIMENSIONS IN MILLIMETERS [INCHES]

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
A	MI0103381	12-23-09	Active	A

SCALE: 17:1	DR. BY: LSY DATE: 12-23-09
DO NOT SCALE DRAWING	CK. BY: GJP DATE: 1-7-10
TITLE: MICROPHONE ASSEMBLY	APP. BY: GJP DATE: 1-7-10
OUTLINE DRAWING	DFC-30852-000 SHT 1.1

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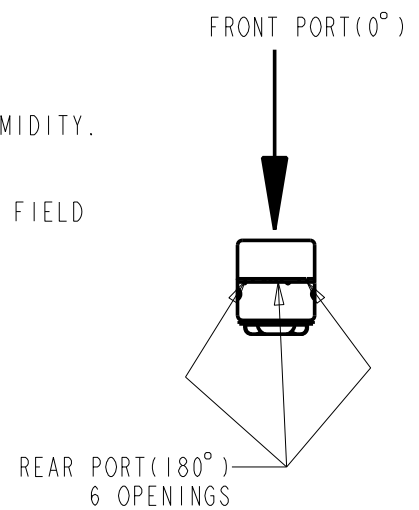
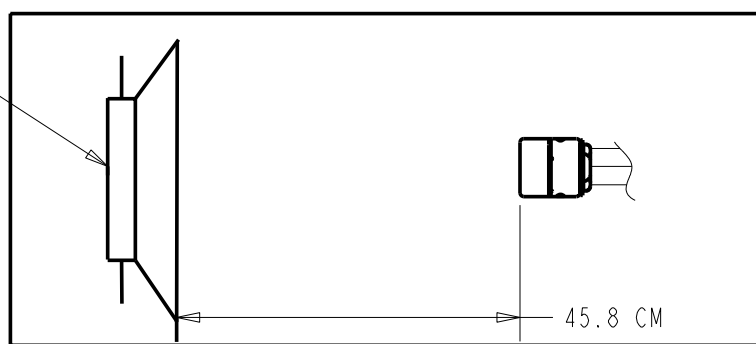


0 DEGREE SENSITIVITY				DEVICE CONFORMITY	
FREQUENCY	MIN.	NOM.	MAX.	RANGE OF DEVIATION FROM 1 kHz	
				0 DEGREE	
100	---	-87.0	---	-20.0	-12.0
1000	-75.0	-71.0	-67.0	0.0	0.0
5000	---	-54.0	---	+13.0	+21.0

NOTES:

- MICROPHONE TO BE FUNCTIONAL WITH 3.0 VDC SUPPLY.
- SENSITIVITY VALUES INDICATED ON THIS SPECIFICATION ARE VALID AT 50% HUMIDITY.
- TEST EQUIPMENT AND FIXTURE: UNI TEST AND TA-1117-F
PLACE PRODUCT IN A CLOSED BOX, 45.8 CM AWAY FROM 94 dB SPL SWEPT SOUND FIELD CREATED BY SPEAKER.

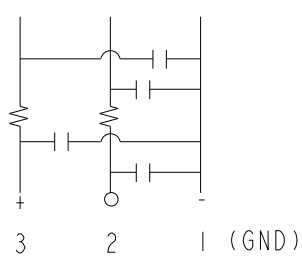
PIONEER TS-A6961E
6 INCH X 9 INCH SPEAKER



4. FRONT TO BACK RATIO MIN. 12dB AT 1kHz.

DC SUPPLY	AMPLIFIER CURRENT DRAIN	OUTPUT IMPEDANCE OHMS			"A" WEIGHTED NOISE	CAPACITANCE ±50%	
		MIN.	NOM.	MAX.		1-2	1-3
1.3V	50 µA MAX.	850	1700	2550	-93.0 dB MAX.	13pF	13pF

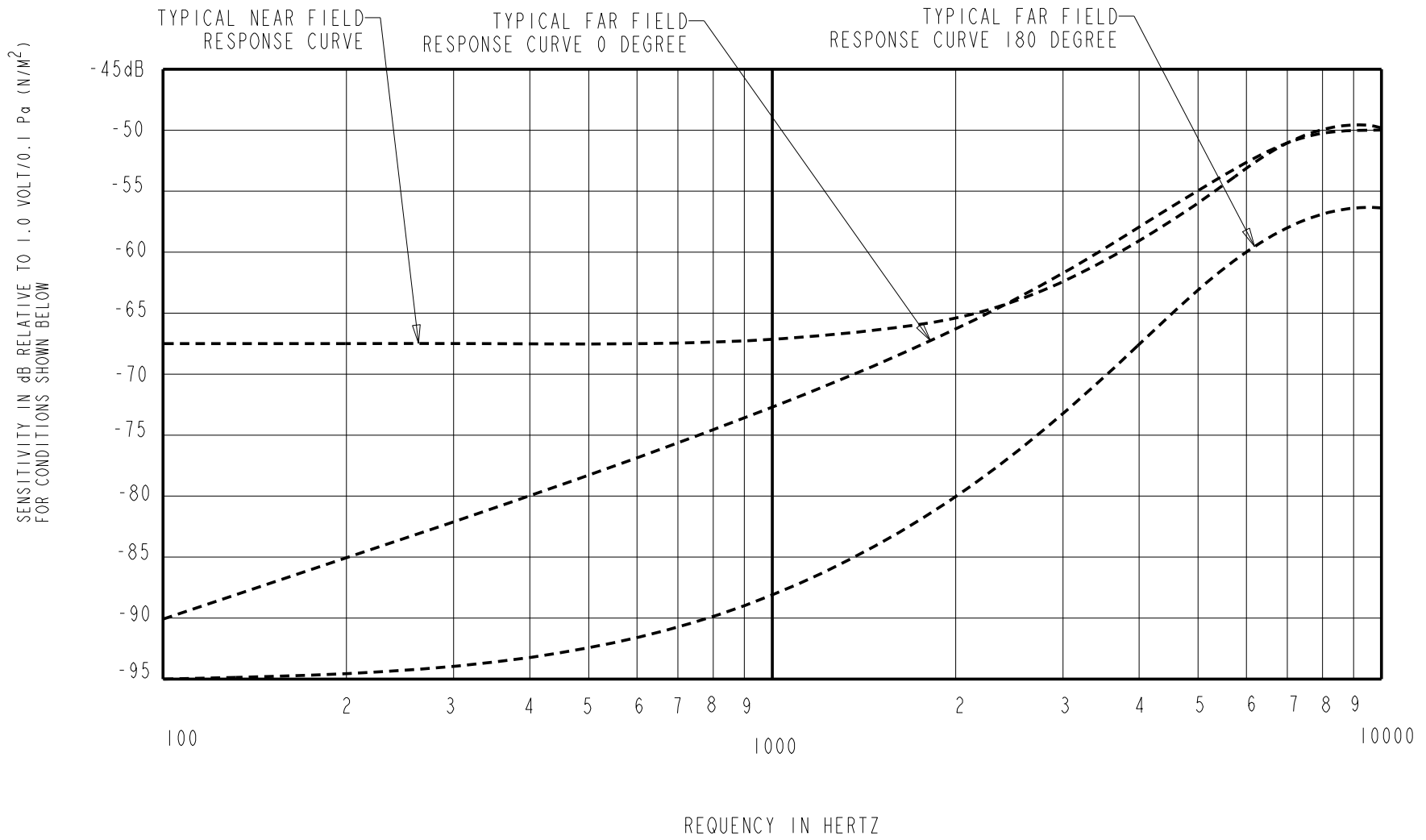
CAPACITANCE PROBE POINTS



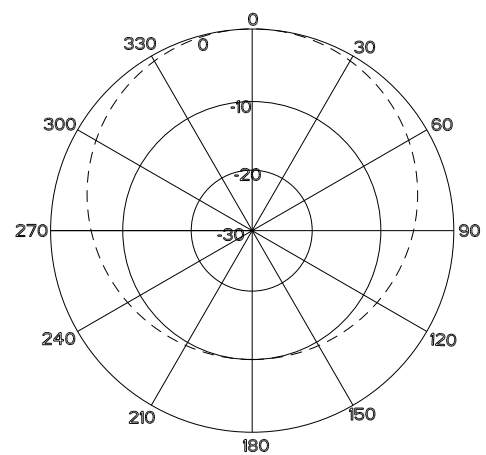
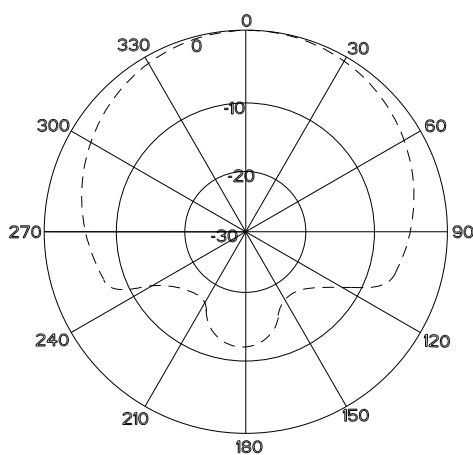
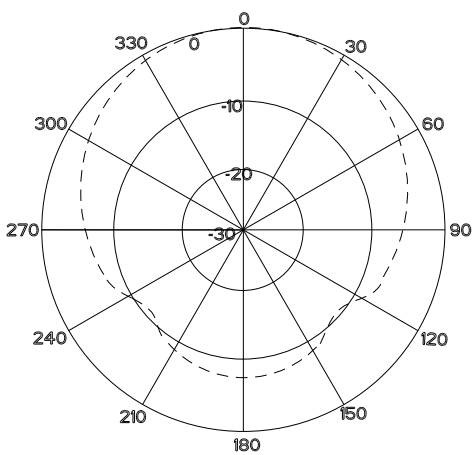
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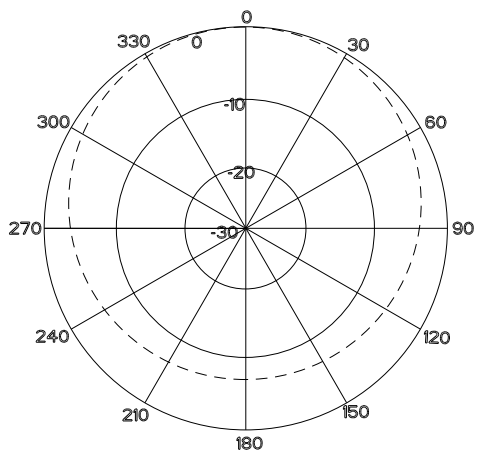
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION		DR. BY	DATE
TITLE: MICROPHONE ASSEMBLY PRODUCTION TEST RESPONSE		LSY	12-23-09
		CK. BY	DATE
DFC-30852-000 SHT 2.1		GJP	1-7-10
		APP. BY	DATE
		GJP	1-7-10



TYPICAL FREE-FIELD POLAR PATTERN AT 125Hz TYPICAL FREE-FIELD POLAR PATTERN AT 1KHz TYPICAL FREE-FIELD POLAR PATTERN AT 4KHz

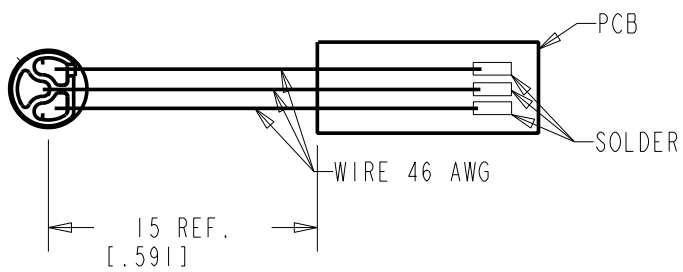


TYPICAL FREE-FIELD POLAR PATTERN AT 10KHz



NOTES:

- MAX. SOUND PRESSURE LEVEL : 130dB
- MICROPHONE SUSPENDED ON 36 GAGE LITZ WIRE (AS SHOWN) IN ANECHOIC CHAMBER (NO FIXTURE), 1M FROM SPEAKER.



- NEAR FIELD TEST CONDITION:
MICROPHONE SUSPENDED CENTERED 6mm ABOVE APERTURE OF B&K TYPE 4227 MOUTH SIMULATOR.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
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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		DR. BY	DATE
TITLE: MICROPHONE ASSEMBLY REFERENCE TYPICAL PERFORMANCE		LSY	12-23-09
		CK. BY	DATE
		GJP	1-7-10
		APP. BY	DATE
		GJP	1-7-10

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DFC-30852-000
SHT 2.2