

SPECIFICATION

PRODUCT TYPE : BOM4015LF7.3-G443-C1033-R4922

DSND BY		2004/10/21
CHKD BY		2004/10/21
APRVD BY		2004/10/21

潍 坊 共 达 电 讯 有 限 公 司

Weifang Gongda Tele-communications Co.,Ltd.

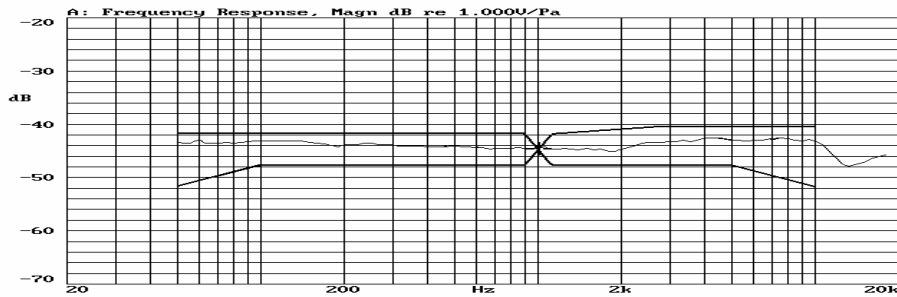
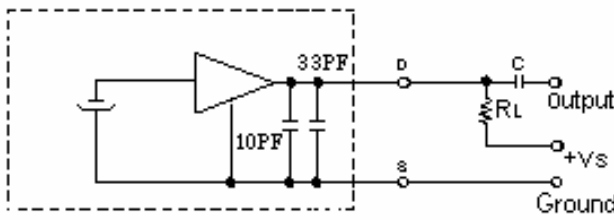
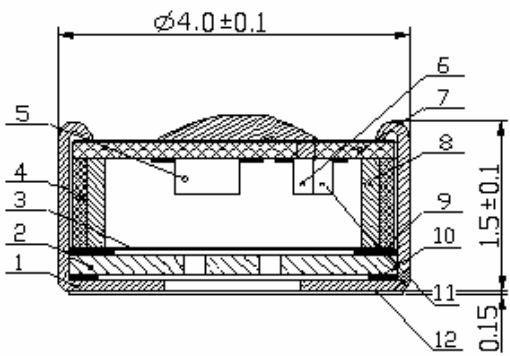
Add : 69th Longquan St. Fangzi Development Zone,Weifang City,China

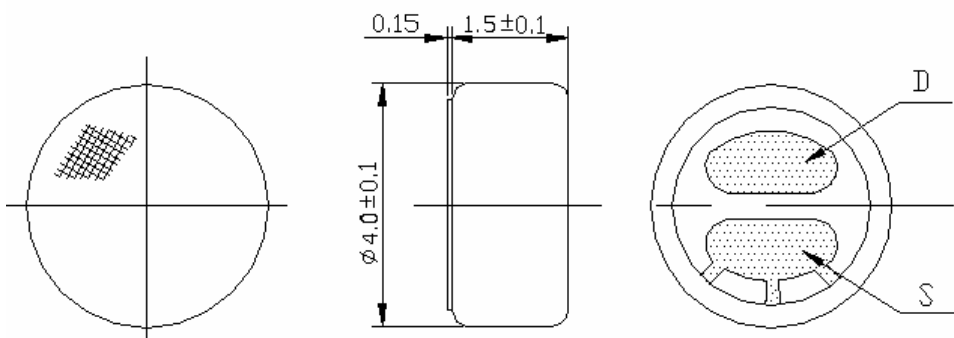
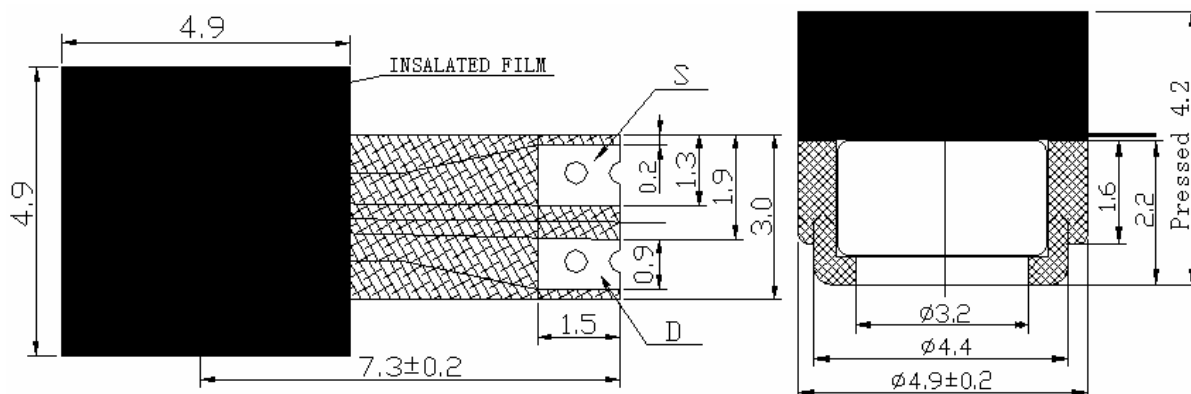
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1	Name : Omnidirectional Electret Condenser Microphone (Back Electret Type)																																																																			
2	TYPE : BOM4015LF7.3-G443-C1033-R4922																																																																			
3	Electrical Specifications:																																																																			
3.1	Sensitivity Range	-44±3dB RL=2.2K Vs=2.0V (1KHz 0dB=1V/Pa)																																																																		
3.2	Impedance	Max. 2.2K 1KHz (RL=2.2K)																																																																		
3.3	Frequency	50-12000 Hz																																																																		
3.4	Current Consumption	Max.0.5mA																																																																		
3.5	Operation Voltage Range	1.0V-10V																																																																		
3.6	Max. Sound Pressure Level	115dB S.P.L																																																																		
3.7	S/N Ratio	More than 58dB																																																																		
3.8	Sensitivity Reduction	2.0V-1.5V Sensitivity Variation less than 3dB																																																																		
3.9 Typical Frequency Response Curve :																																																																				
																																																																				
3.10 Schematic Diagram :																																																																				
 <p>EMunit</p>																																																																				
4 Mechanical Specifications :																																																																				
4.1	Drawing																																																																			
																																																																				
<table><tr><th>NO.</th><th>NAME</th><th>MATERIAL</th><th>QTY</th><th>REMARK</th></tr><tr><td>12</td><td>FELT</td><td>Cotton decron textile</td><td>1</td><td></td></tr><tr><td>11</td><td>CHIP-CAPACITOR</td><td></td><td>1</td><td>0201 33PF</td></tr><tr><td>10</td><td>SHEET COPPER</td><td>COPPER</td><td>1</td><td></td></tr><tr><td>9</td><td>SPACER</td><td>Polysterfilm</td><td>1</td><td></td></tr><tr><td>8</td><td>ELECTRET RING</td><td>H62</td><td>1</td><td></td></tr><tr><td>7</td><td>P.C.B</td><td>Glass fiber</td><td>1</td><td></td></tr><tr><td>6</td><td>CHIP-CAPACITOR</td><td></td><td>1</td><td>0201 10PF</td></tr><tr><td>5</td><td>F.E.T</td><td></td><td>1</td><td>TF202 (2SK3426)</td></tr><tr><td>4</td><td>HOUSING CHAMBER</td><td>PBT</td><td>1</td><td></td></tr><tr><td>3</td><td>POLARIZED DIAPHRAGM</td><td>Teflon</td><td>1</td><td>DUPONT</td></tr><tr><td>2</td><td>ELECTRET BACK</td><td>H62</td><td>1</td><td></td></tr><tr><td>1</td><td>CASE</td><td>AL with Au coating</td><td>1</td><td></td></tr></table>				NO.	NAME	MATERIAL	QTY	REMARK	12	FELT	Cotton decron textile	1		11	CHIP-CAPACITOR		1	0201 33PF	10	SHEET COPPER	COPPER	1		9	SPACER	Polysterfilm	1		8	ELECTRET RING	H62	1		7	P.C.B	Glass fiber	1		6	CHIP-CAPACITOR		1	0201 10PF	5	F.E.T		1	TF202 (2SK3426)	4	HOUSING CHAMBER	PBT	1		3	POLARIZED DIAPHRAGM	Teflon	1	DUPONT	2	ELECTRET BACK	H62	1		1	CASE	AL with Au coating	1	
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4.2	Dimension (mm)		
			
4.3	Accessory Drawing of MIC : Unit: (mm)		
			
4.4	Weight	0.1g	
5.Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than ±3dB from initial value, and shall keep their initial operation and appearance.			
5.1	Hi-Temp. Test	The microphone unit must be subjected to +85 for 240 Hours, and expose to room temperature for 3 Hours.	
5.2	Low-Temp. Test	The microphone unit must be subjected to -40 for 240 Hours, and expose to room temperature for 3 Hours.	
5.3	Humi.&Heat Test	The microphone unit must be subjected to +70 , 93% RH-for 240 Hours, and expose to room temp for 3 Hours .	
5.4	Thermal Shocking Test	The microphone unit must be subjected to a environment from -40 for 30 minutes to the end of +80 for 30 minutes, which shall be repeated 32 cycles and exposed to room temperature for 3 hours .	
5.5	Vibration Test	The microphone unit must be subjected to a procedure that after vibrating for two hours from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high amplitude.	
5.6	Dropping Test	The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1-meter-high without package.	
6	Environmental Condition:		
6.1	Storage condition	-40 ~+70 R.H. less than 90%	
6.2	Operation condition	-20 ~+60 R.H. less than 90%	

