

SPECIFICATION

PRODUCT TYPE: <u>BOM4015LF7.3-G443-C1033-R4922</u>

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

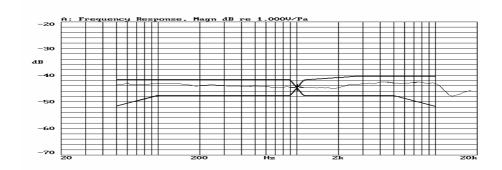
潍坊共达电讯有限公司

Weifang Gongda Tele-communications Co.,Ltd.

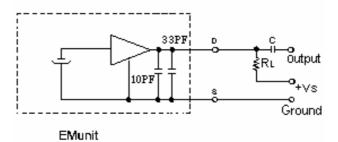
Add: 69th Longquan St. Fangzi Development Zone, Weifang City, China

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:

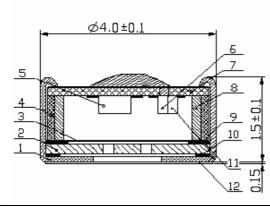


3.10 Schematic Diagram:

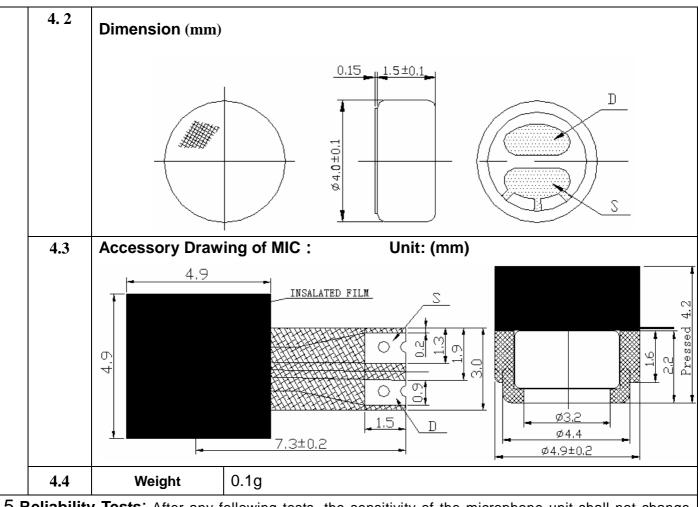


4 Mechanical Specifications:

4.1 Drawing



NO.	NAME	MATERAL	QTY	REMARK
12	FELT	Cotton decron textile	l	
11	CHIP- CAPACITOR		ı	0201 33PF
10	SHEET COPPER	COPPER	1	
9	SPACER	Polysterfilm	ı	
8	ELECTRET RING	H62	l	
7	P.C.B	Glass fiber	1	
6	CHIP- CAPACITOR		1	0201 10PF
5	F.E.T		l	TF202 (2SK3426)
4	HOUSPING CHAMBER	PBT	l	
3	POLARIZED DIAPHRAGM	Teflon	l	DUPONT
2	ELECTRET BACK	H62	l	
1	CASE	AL with Au coating	l	



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
	J.1	The remp. Test	expose to room temperature for 3 Hours.
	5.2	Low-Temp. Test	The microphone unit must be subjected to -40 for 240 Hours, and
	3.2	Low-temp. Test	expose to room temperature for 3 Hours.
	5.3	Humi.&Heat Test	The microphone unit must be subjected to +70 , 93% RH-for 240
	5.3		Hours, and expose to room temp for 3 Hours.
		Thermal Shocking Test	The microphone unit must be subjected to a environment from -40 for
	5.4		30 minutes to the end of +80 for 30 minutes, which shall be repeated 32
			cycles and exposed to room temperature for 3 hours .
		Vibration Test	The microphone unit must be subjected to a procedure that after vibrating
	5. 5		for two hours from each of the two directions with a frequency of 10-55Hz
			and a 1.52mm-high amplitude.
Ī	5 (Draming Toot	The microphone unit must be subjected to a procedure that after dropping
	5.6	Dropping Test	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%

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		Arbitration	Temperature : 20 ±1				
	6.3	condition	Relative humidity: 63%~67%				
			Air pressure : 86~106Kpa				
7	Notes:						
	7.1		g procedures upon microphones must be completed in a metallic device, the the soldering irons must be limited as 300 ± 10 . Soldering time should econds.				
	7.2	1 -	Operators, the solder fixture and the soldering iron must be statically grounded under each soldering process.				
		Always Avoid bringing pinholes on the soldering terminal during the operation to the omni-directional microphones.					
	7.3	MIC					
8	Packa	Packaging:					
		P/N	100PCS×100BOXES				
		100PCS MIC	ESD SPONGE 2 INNER CONTONS (MIC 20000PCS)				
		ESD PLASTIC BO					

245

20000PCS IN MASTER CARTON