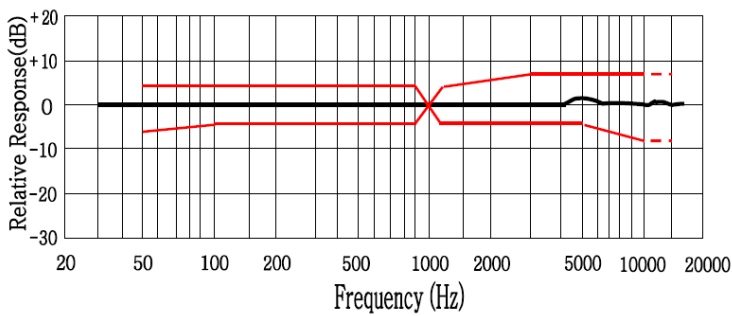
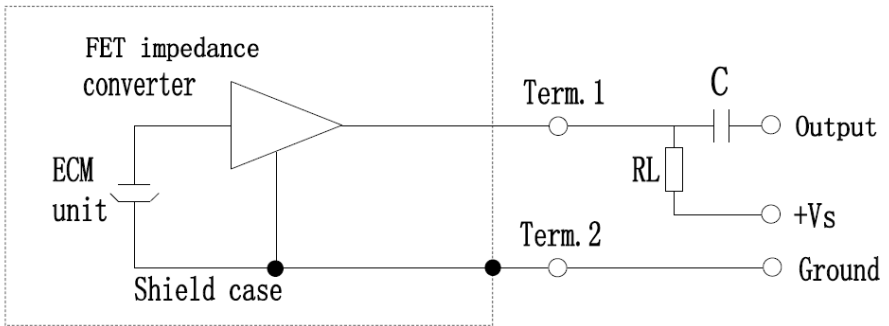




# Elektrotechnik Karl-Heinz Mauz GmbH

**EMY-9745NP-42** (Artikel-Nr. 200410)

**EKULIT**

Electrical Specifications:		
3.1	Sensitivity Range	-42±3dB $R_L=2.2K\Omega$ $V_s=4.5V$ ( 1KHz 0dB=1V/Pa)
3.2	Impedance	Max. 2.2K $\Omega$ 1KHz ( $R_L=2.2K\Omega$ )
3.3	Frequency	20-16000 Hz
3.4	Current Consumption	Max.0.5mA
3.5	Operation Voltage Range	1.0V-10V
3.6	Max. Sound Pressure Level	110dB S.P.L
3.7	S/N Ratio	More than 58dB
3.8	Sensitivity Reduction	3.0V-2.0V Sensitivity Variation less than 3dB
3.9	RoHS and REACH compliance	YES
3.10 Typical Frequency Response Curve		
		
3.11 Schematic Diagram:		
		
$R_L=2.2K\Omega$ , $V_s=4.5V$ $C=1\mu F$		

Adresse: **Felix-Wankel-Str. 35 • 73760 Ostfildern/Nellingen**

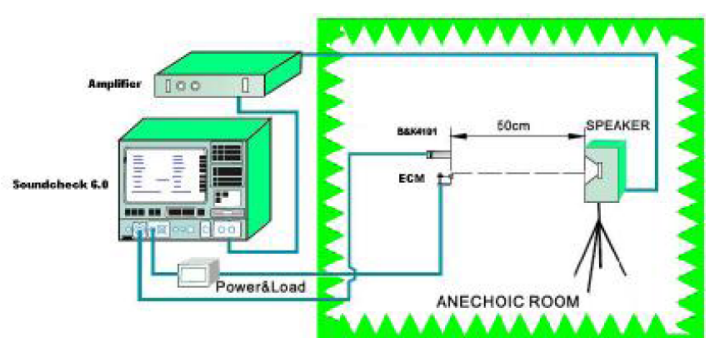
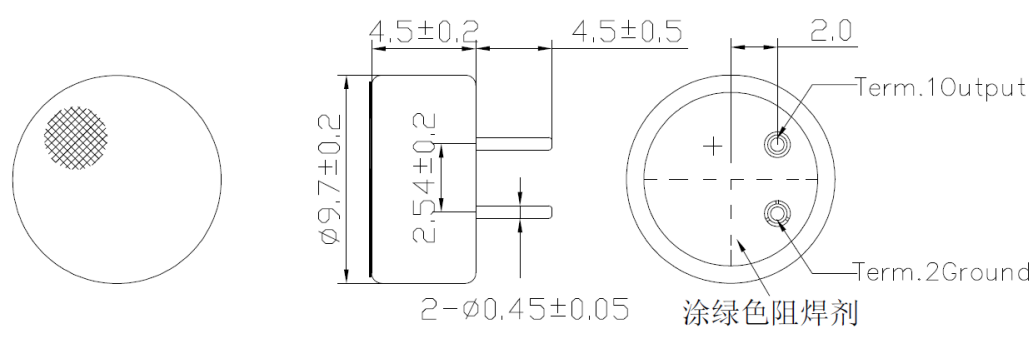
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# Elektrotechnik Karl-Heinz Mauz GmbH

**EMY-9745NP-42** (Artikel-Nr. 200410)

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3.12 Test Setup Drawing:		
		
Mechanical Specifications:		
4.1	<b>Appearance Drawing (mm)</b>	
		
4.2	Weight	0.20g
Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than $\pm 3\text{dB}$ from initial value, and shall keep their initial operation and appearance.		
5.1	Hi-Temp. Test	The microphone unit must be subjected to $+70^{\circ}\text{C}$ for 240 Hours, and expose to room temperature for 3 Hours.
5.2	Low-Temp. Test	The microphone unit must be subjected to $-20^{\circ}\text{C}$ for 240 Hours, and expose to room temperature for 3 Hours.
5.3	Humi.&Heat Test	The microphone unit must be subjected to $+60^{\circ}\text{C}$ , 93% RH-for 240 Hours, and expose to room temp for 3 Hours .



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5.4	Thermal Shocking Test	The microphone unit must be subjected to a environment from - 20℃ for30 minutes to the end of +70℃ for 30 minutes, which shall be repeated 5 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.		
Environmental Condition:				
6.1	Storage condition	-40℃~+75℃ R.H. less than 90%		
6.2	Operation condition	-20℃~+70℃ R.H. less than 90%		
6.3	Arbitration condition	Temperature : 20℃ ±1℃ Relative humidity: 63%~67% Air pressure : 86~106Kpa		
Packaging				
--	DRAWING	QTY (PCS)	SIZE(mm)	MARKING
INNER BOX		100	100X100X8	AS CUSTOMER'S P.O
OUTER BOX		15000	425 X 265 X 110	AS CUSTOMER'S P.O
Output Inspection standard				
Output inspection standard is executed according to 《GB/T2828. 1-2003》 .				

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