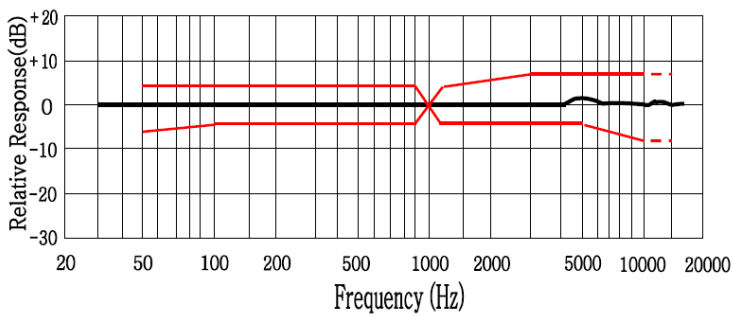
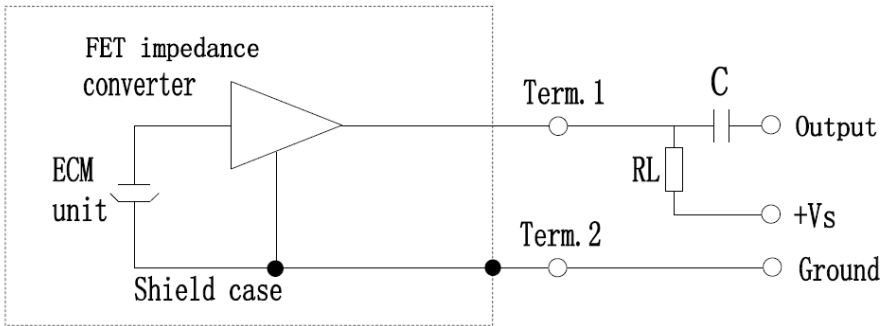




Elektrotechnik Karl-Heinz Mauz GmbH

EMY-9745N-42 (Artikel-Nr. 200400)

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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 Ω 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**

Tel: **+49-711/3414023**

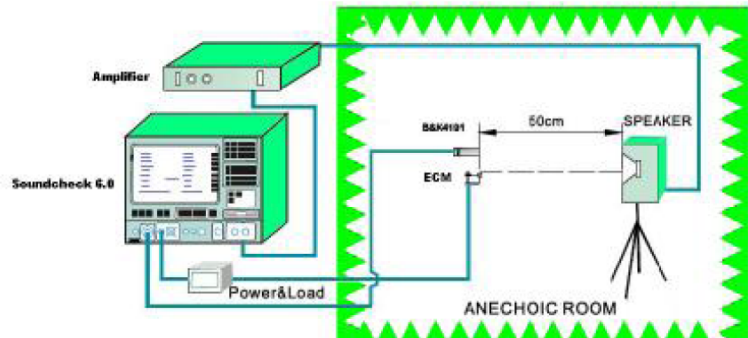
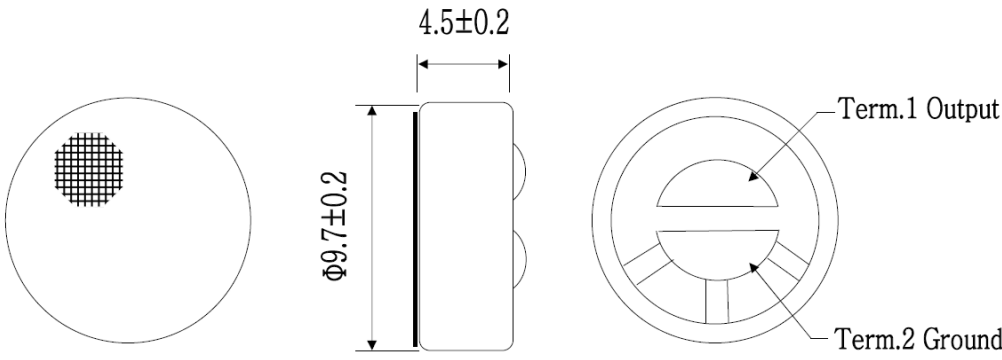
Fax: **+49-711/3414024**

E-mail: **info@ekulit.de**

Web site: **www.EKULIT.de**

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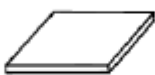

3.12 Test Setup Drawing:			
			
Mechanical Specifications:			
4.1	Appearance Drawing (mm) 		
4.2	<table border="1" style="width: 100%;"> <tr> <td style="width: 30%;">Weight</td> <td style="text-align: center;">0.20g</td> </tr> </table>	Weight	0.20g
Weight	0.20g		
<p>Reliability Tests: After any following 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.</p>			
5.1	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Hi-Temp. Test</td> <td>The microphone unit must be subjected to $+70^{\circ}\text{C}$ for 240 Hours, and expose to room temperature for 3 Hours.</td> </tr> </table>	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.
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	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Low-Temp. Test</td> <td>The microphone unit must be subjected to -20°C for 240 Hours, and expose to room temperature for 3 Hours.</td> </tr> </table>	Low-Temp. Test	The microphone unit must be subjected to -20°C for 240 Hours, and expose to room temperature for 3 Hours.
Low-Temp. Test	The microphone unit must be subjected to -20°C for 240 Hours, and expose to room temperature for 3 Hours.		
5.3	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Humi.&Heat Test</td> <td>The microphone unit must be subjected to $+60^{\circ}\text{C}$, 93% RH-for 240 Hours, and expose to room temp for 3 Hours .</td> </tr> </table>	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 .
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°C for 30 minutes to the end of +70°C 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°C~+75°C R.H. less than 90%		
6.2	Operation condition	-20°C~+70°C R.H. less than 90%		
6.3	Arbitration condition	Temperature : 20°C ± 1°C 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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