

## Specifications Sheet

**Product Type :** *Analog MEMS Surface Mount Microphone*

**Product Series :** *MEOM3722*

**Description :** *MEMS OMN ANALOG 3.76 X 2.24D 1.1H 2V < 300 Ohm 42/3 RoHS S/N 57 dB*

**Electrical Specifications**

*Test Conditions : 23.0 ± 2.0 °C, 55.0 ± 20.0 % R.H.*

Model No.		MEOM-3722TA-02-623				
Parameter	Symbol	Condition	Limits			Unit
			Min.	Typ	Max.	
Supply Voltage	$V_{DD}$		1.3	2.0	3.6	V
Supply Current	$I_{DSS}$	$V_{DD} = 2.0 V$	---	160.0	---	$\mu A$
Sensitivity	$S$	94.0 dB SPL @ 1.0 KHz	-45.0	-42.0	-39.0	dB
Directivity	$D(\theta)$		Omni - Directional			
Signal to Noise Ratio	$S/N$	94.0 dB SPL @ 1.0 KHz, (A-weighted)	---	57.0	---	dB
Total Harmonic Distortion	THD	94.0 dB SPL @ 1.0 KHz	---	0.2	---	%
Acoustic Overload Point	AOP	10.0 % THD @ 1.0 kHz	---	125.0	---	dB SPL
Power Supply Rejection	PSR	100.0 mVpp square wave @ 217.0 Hz, A-weighted	---	-72.0	---	dBFS
Output Impedance	$Z_{OUT}$	@ 1.0 KHz	---	---	300.0	$\Omega$
Terminal			SMD			
Operating Temperature			-40.0 ~ +105.0			°C
Storage Temperature			-40.0 ~ +85.0 (Microphone units with package)			°C
Weight			0.024 ± 10.0 %			g

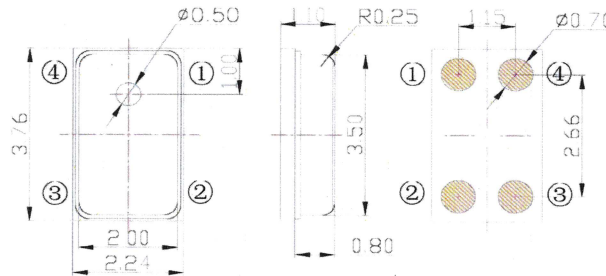
**Dimensions**

Unit : mm

TOP VIEW

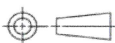
SIDE VIEW

BOTTOM VIEW



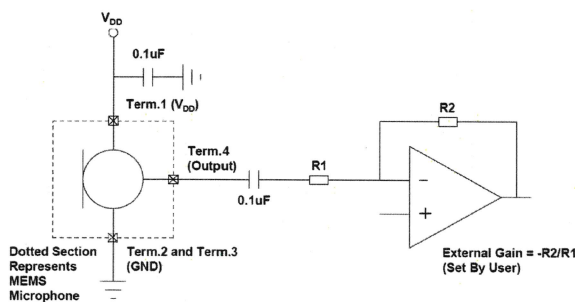
Pin Output	
Pin #	Function
1	VDD
2	GND
3	GND
4	Output

Note :



All dimensions are in millimeter (mm) otherwise specified.  
 Tolerance : ± 0.1 mm unless otherwise specified.

**Recommended Interface Circuit**



Modify :	Date :	By :
1) Supply Voltage : 1.6 ~ 3.6 V change to 1.3 ~ 3.6 V. 2) Total Harmonic Distortion : 100 dB SPL @ 1 KHz, Max. 1 % change to 94 dB SPL @ 1 KHz, Typ. 0.2 %. 3) Add "Acoustic Overload Point" information.	23 Apr 2019	Nelson

Approved By : JY  
 Date : 23 Apr 2019

Prepared By : LL  
 Date : 23 Apr 2019