

SPECIFICATIONS SHEET FOR APPROVAL

MAGNETIC TRANSDUCER
P/N: MT1285A01NP

DESCRIPTION: D12mm, H8.5mm Magnetic Transducer, 2,048Hz, 1.5Vo-p, 80dB at 10cm, RoHS Compliance (Directive 2002/95/EC)

VERSION: 02

DATE: 5-Oct-09

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	12-Mar-09
02	Updated company address	5-Oct-09

APPROVED BY :

CUSTOMER NAME :

DATE :

SPECIFICATIONS SHEET

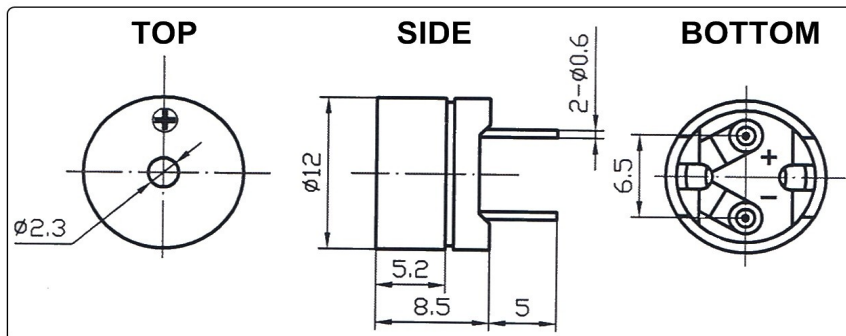
MAGNETIC TRANSDUCER P/N: MT1285A01NP

1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	80	dB
RATED VOLTAGE	1.5	Vo-p
OPERATING VOLTAGE	1 - 5	Vo-p
RESONANCE FREQUENCY	2,048	Hz
*MAX OPERATING CURRENT	15	mA
COIL RESISTANCE	42 ± 5	Ohm
OPERATING TEMPERATURE	-20 to +60	°C
STORAGE TEMPERATURE	-20 to +65	°C
HOUSING	NORYL	-
WEIGHT	2	g

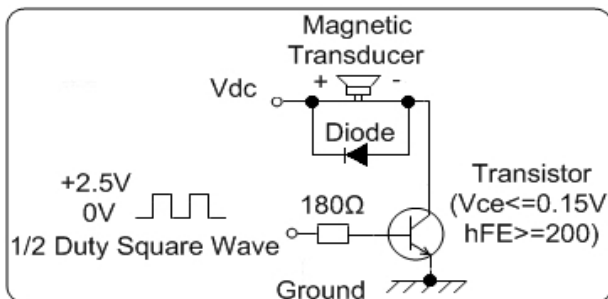
*Value applying rated voltage (1/2 duty square wave, resonance frequency)

2. DIMENSIONS (unit in mm)



Tolerance: ± 0.5 mm except specified

3. RECOMMENDED CIRCUIT



VERSION: 02
DATE: 5-Oct-09

All specifications subject to change without notice

4. RELIABILITY TEST

a) HIGH TEMPERATURE TEST

After exposure at $+65 \pm 2^\circ\text{C}$ for 96 hours and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

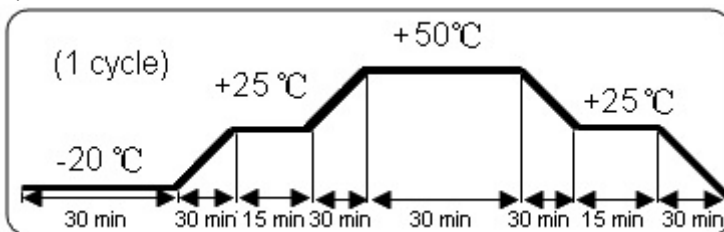
b) LOW TEMPERATURE TEST

After exposure at $-20 \pm 2^\circ\text{C}$ for 96 hours and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

c) HUMIDITY TEST

$25 \pm 2^\circ\text{C}$, 90-95%RH, 5hr=>up to $55 \pm 2^\circ\text{C}$, 90-95%RH, 0.5hr => $55 \pm 2^\circ\text{C}$, 90-95%RH, 5hr=>down to $25 \pm 2^\circ\text{C}$, 90-95%RH, 0.5hr, 10 cycles

d) THERMAL SHOCK TEST



After exposure to above temperature cycle for 5 times and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

e) VIBRATION TEST

After vibrating the object with 1.5mm amplitude at 10 - 50 Hz in 3 perpendicular directions for 2 hours each, the value of frequency/current/SPL should meet specifications shown in page 2.

f) DROP TEST

After Dropping naturally from 700mm height onto the surface of 10mm wooden board with 3 directions, the value of frequency/current/SPL should meet specifications shown in page 2.

VERSION: 02

DATE: 5-Oct-09

All specifications subject to change without notice