

## SPECIFICATIONS SHEET

### MAGNETIC TRANSDUCER

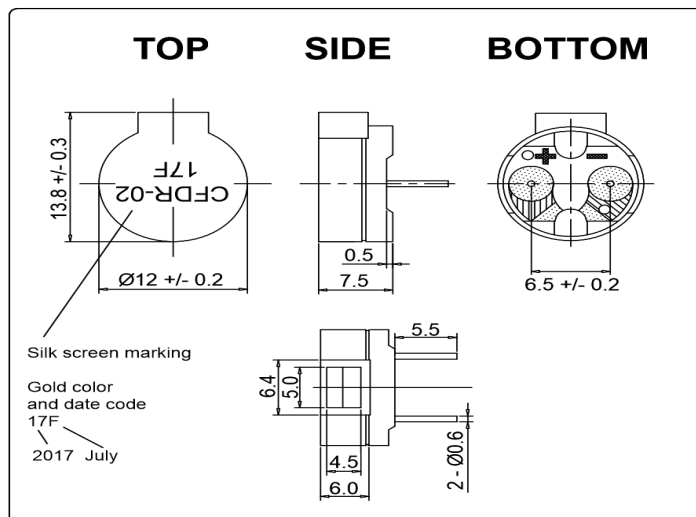
P/N: CFDR02-S

#### 1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	88	dBA
RATED VOLTAGE	1.5	Vo-p
OPERATING VOLTAGE	1 – 3	Vo-p
RESONANCE FREQUENCY	2731	Hz
*MAX OPERATING CURRENT	30	mA
COIL RESISTANCE	$16 \pm 4$	Ohm
OPERATING TEMPERATURE	-30 to +70	°C
STORAGE TEMPERATURE	-40 to +85	°C
HOUSING	NORYL	-
WEIGHT	2	g

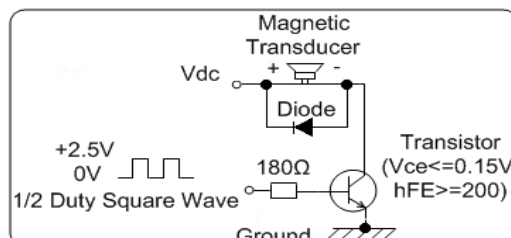
\*Value applying rated voltage (1/2 duty square wave, resonance frequency)

#### 2. DIMENSIONS (unit in mm)



Tolerance:  $\pm 0.5$ mm except specified

#### 3. RECOMMENDED CIRCUIT



VERSION: 01

DATE: 8-Jun-17

All specifications subject to change without notice

#### 4. RELIABILITY TEST

a) HIGH TEMPERATURE TEST

After exposure at  $+60 \pm 2^\circ\text{C}$  for 96 hours and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

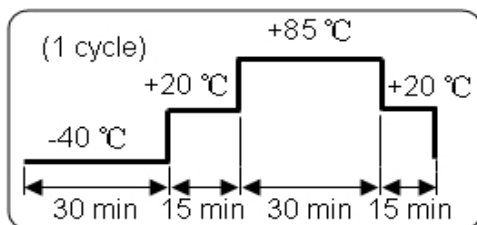
b) LOW TEMPERATURE TEST

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  $\Rightarrow$  up to  $55 \pm 2^\circ\text{C}$ , 90-95%RH, 0.5hr  $\Rightarrow$   $55 \pm 2^\circ\text{C}$ , 90-95%RH, 5hr  $\Rightarrow$  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.

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