

SPECIFICATIONS SHEET

MAGNETIC TRANSDUCER

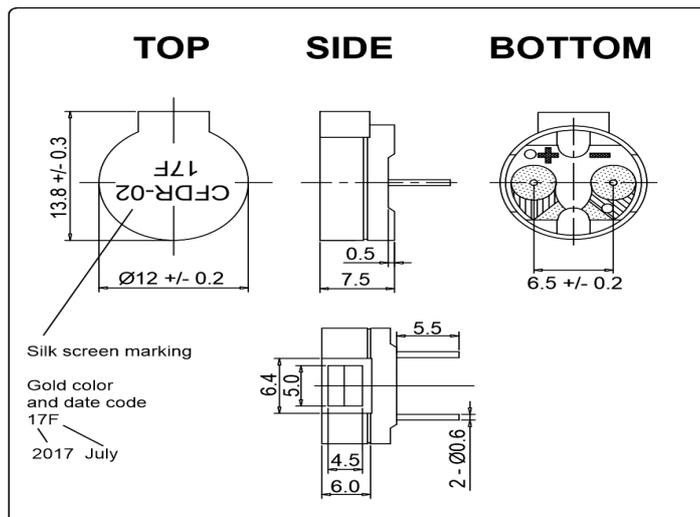
P/N: CFDR02-S

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 ± 4	Ohm
OPERATING TEMPERATURE	-30 to +70	°C
STORAGE TEMPERATURE	-40 to +85	°C
HOUSING	NORYL	-
WEIGHT	2	g

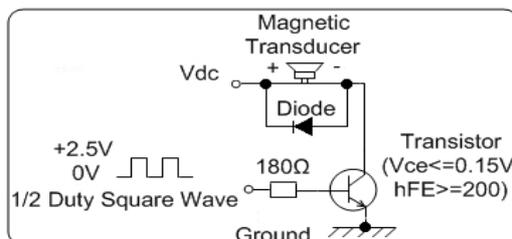
*Value applying rated voltage (1/2 duty square wave, resonance frequency)

2. DIMENSIONS (unit in mm)



Tolerance: ± 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.

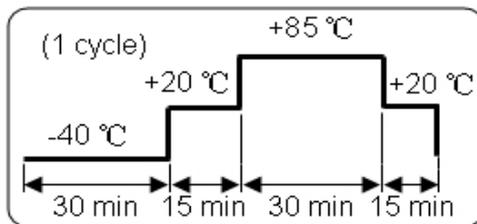
b) LOW TEMPERATURE TEST

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=>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: 01

DATE: 8-Jun-17

All specifications subject to change without notice

CopyRight © 2017 Sound Components Limited

SOUND COMPONENTS LIMITED 聲港科技有限公司

Unit 2112-2113 • 21/F • International Trade Centre • 11-19 Sha Tsui Road • Tsuen Wan • Hong Kong

香港香港荃灣沙咀道11-19號達貿中心21樓2112-13室

Tel: +852 2304 4000

Fax: +852 2304 7000

email: sales@hk-sound.com website: www.hk-sound.com