



Elektrotechnik Karl-Heinz Mauz GmbH

SMD-1411A05 (Artikel-Nr. 220013)

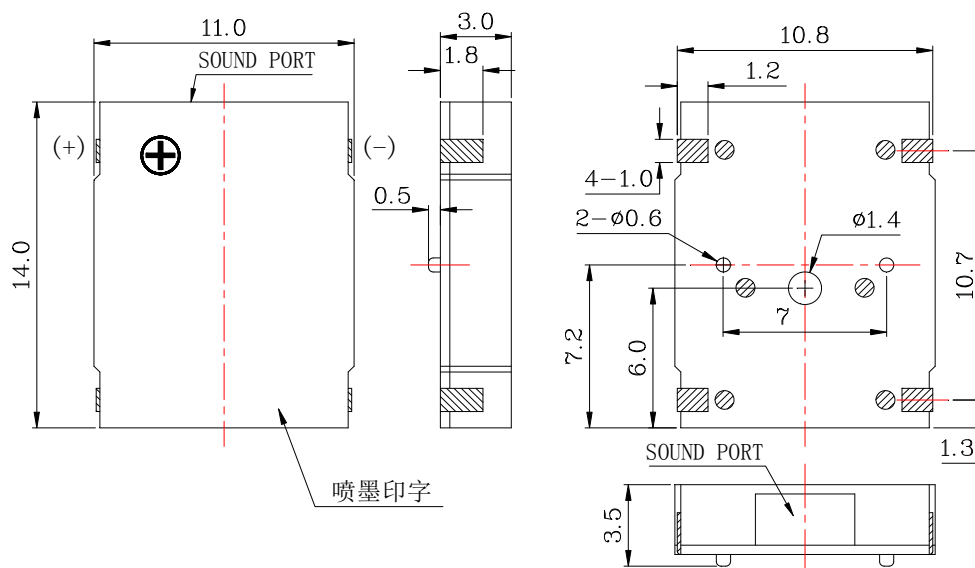
EKULIT

SPECIFICATIONS:

TYPE	UNIT	SMD-1411A05
Oscillation Frequency	Hz	2730
Rated Voltage	V _{0-p}	5
Operating Voltage	V _{0-p}	4~6
Sound Pressure Level	dB	Min. 90 at 10cm
Current Consumption	mA	Max. 90 at Rated Voltage
Coil Resistance	Ω	40 ± 3
Housing Material		LCP (Black)
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+85
Weight	g	1.0

DIMENSIONS :

(Unit: mm)



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**

SMD-1411A05 (Artikel-Nr. 220013)

EKULIT

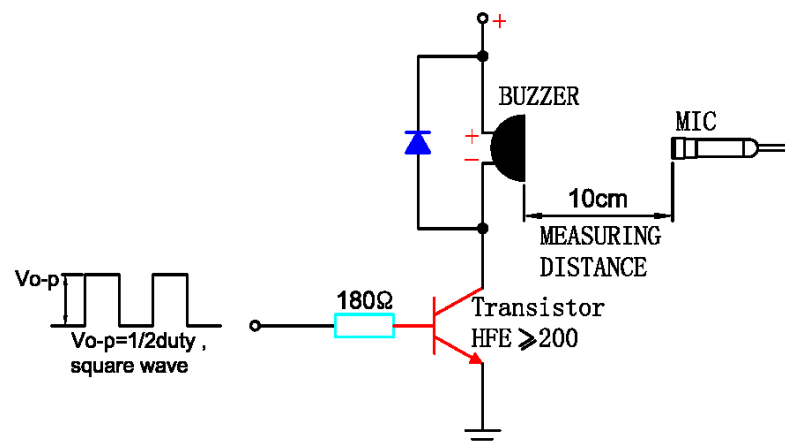
TESTING METHOD

Standard Measurement conditions

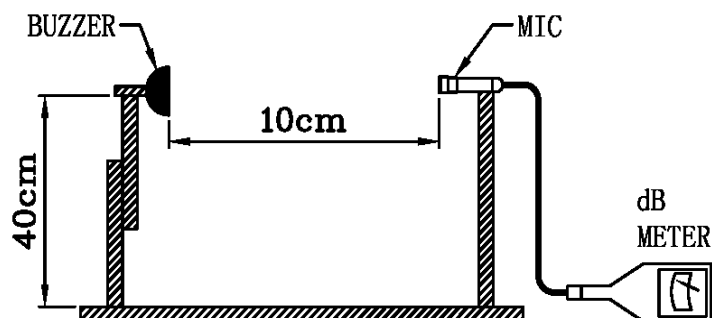
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



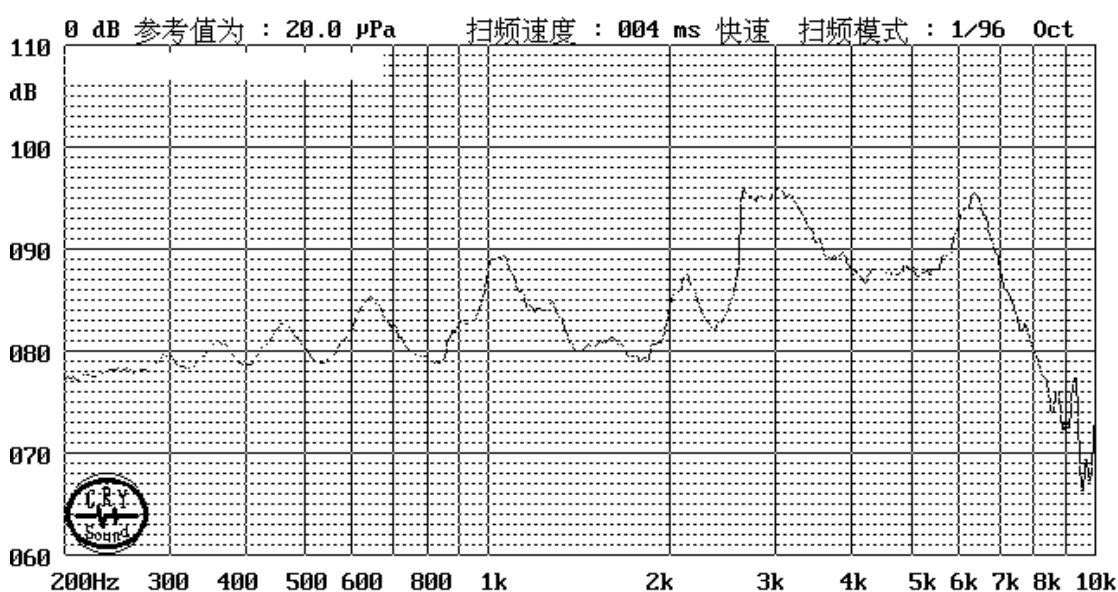
In the measuring test, buzzer is placed as follows:



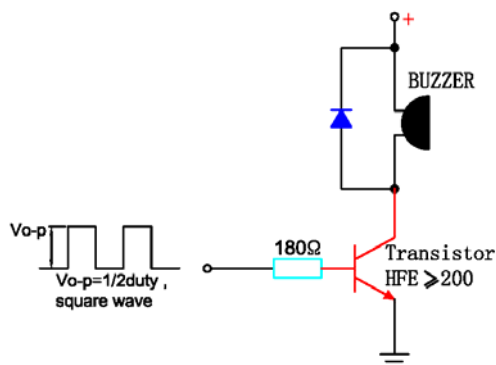
SMD-1411A05 (Artikel-Nr. 220013)

EKULIT

Typical Frequency Response Curve



Recommend Driving Circuit



The base current I_b should be high enough so that it saturates the collector current of the transistor with the CB load.



Elektrotechnik Karl-Heinz Mauz GmbH

SMD-1411A05 (Artikel-Nr. 220013)

EKULIT

RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with $80\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
2	Low Temperature Test (Storage)	After being Placed in a chamber with $-30\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at $40\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$.
4	Temperature Cycle Test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p> <p>Allowable variation of SPL after test: $\pm 10\text{dB}$.</p>
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: $\pm 10\text{dB}$.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: $\pm 10\text{dB}$.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300\pm 5^{\circ}\text{C}$ for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

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**



Elektrotechnik Karl-Heinz Mauz GmbH

SMD-1411A05 (Artikel-Nr. 220013)

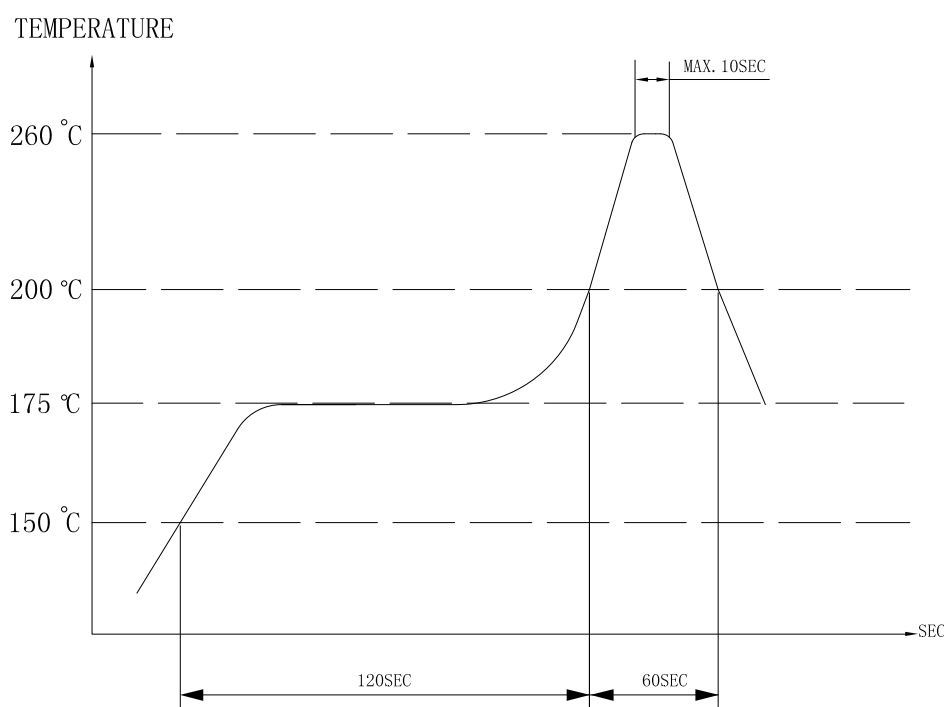
EKULIT

Soldering Condition

(1) Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2) Manual soldering

Manual soldering temperature 350 °C within 5 sec.

SMD-1411A05 (Artikel-Nr. 220013)

EKULIT

PACKING STANDARD

