

Elektrotechnik Karl-Heinz Mauz GmbH

SMD-05.3A03 (Artikel-Nr. 220120)

EKULIT

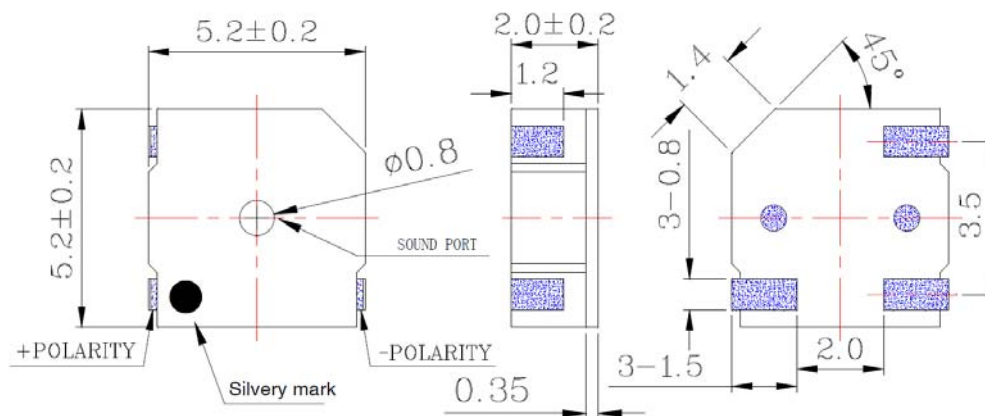
SPECIFICATIONS:

TYPE	UNIT	SMD-05.3A03
◆ Min. Sound Output at 10cm	dB	80
Rated Voltage	V	3
Operating Voltage	V	2~4
Resonant Frequency	Hz	4000
◆ Max. Current Consumption	mA	110
Coil Resistance	Ω	12 ± 3
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+80
Material		LCP
Weight	g	0.1

◆ Value applying at (rated voltage, 4000Hz, 1/2 duty square wave)

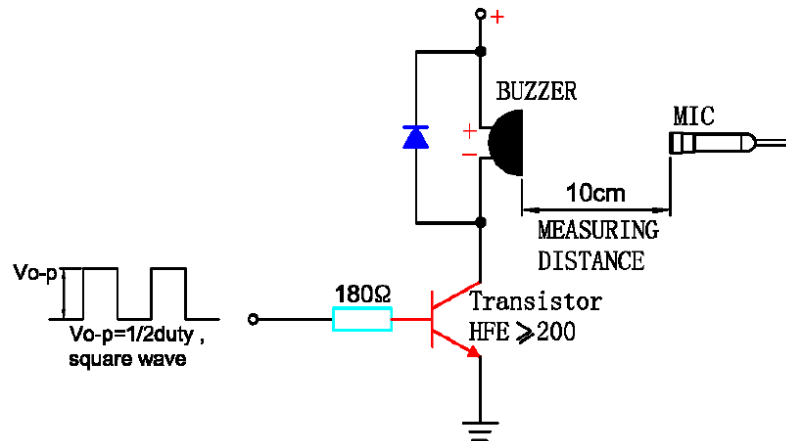
DIMENSIONS :

(Unit: mm)

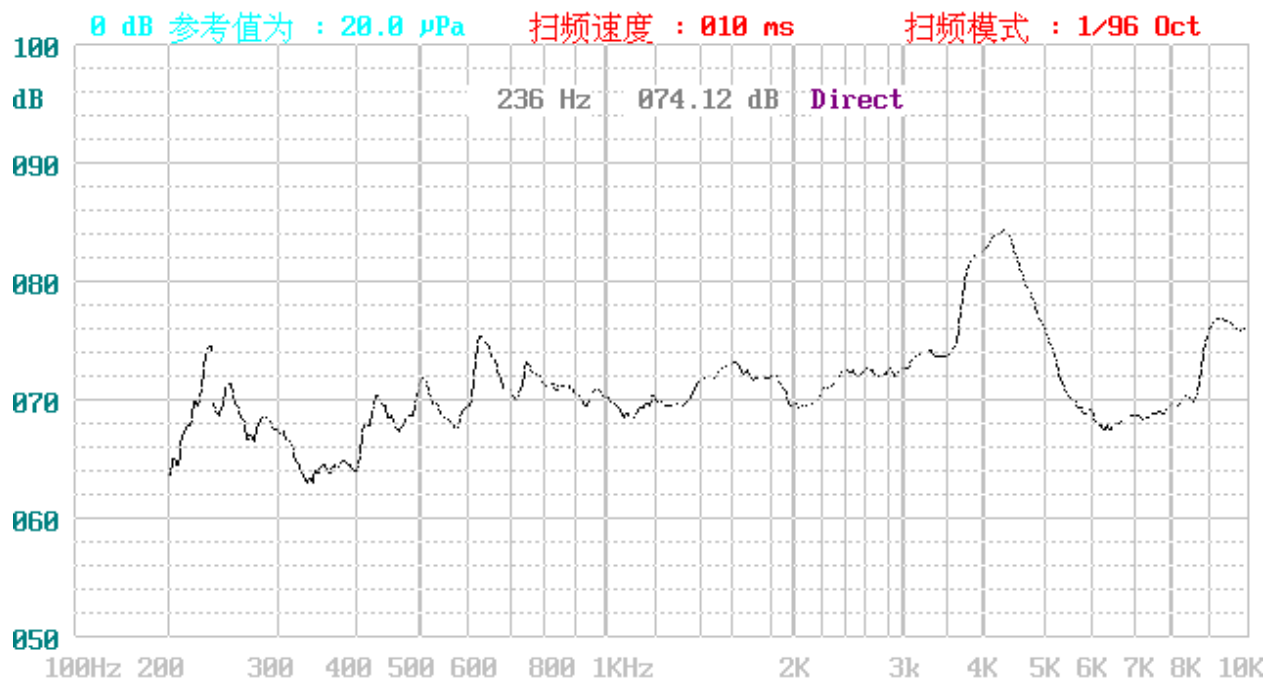


Elektrotechnik Karl-Heinz Mauz GmbH

TEST METHOD:



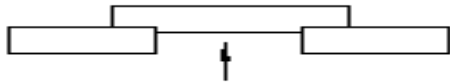
FREQUENCY RESPONSE:





Elektrotechnik Karl-Heinz Mauz GmbH

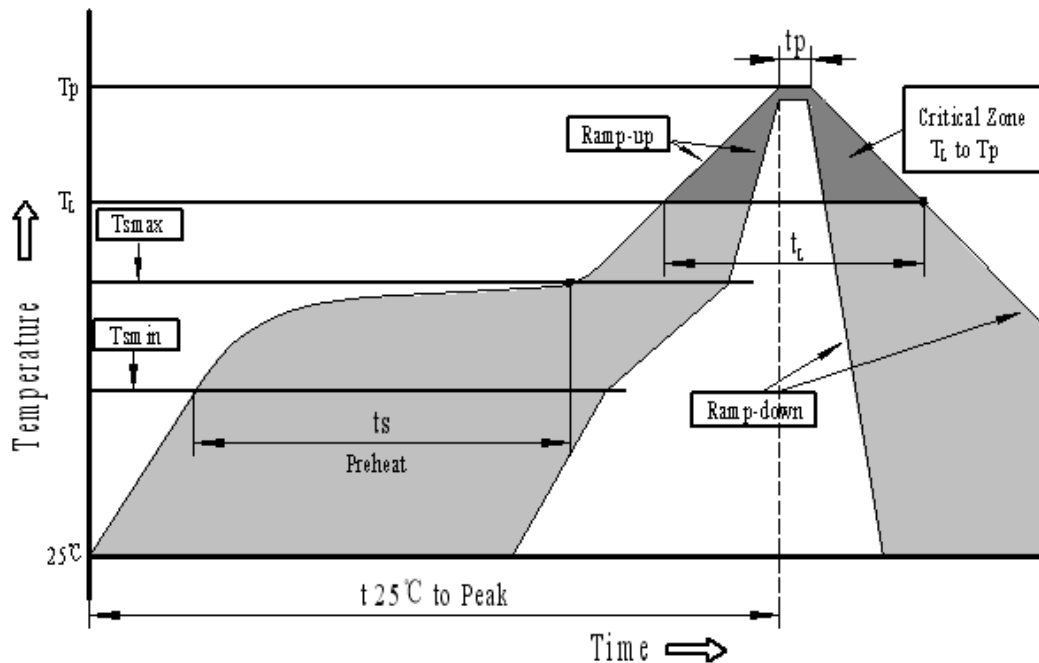
RELIABLY TEST:

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
1	High temp. storage life	The part shall be capable of withstanding a storage temperature is +80°C for 120 hours	After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB or more.
2	Low temp. storage life	The part shall be capable of withstanding a storage temperature is -30°C for 120 hours	
3	Temp. Cycle	Total 5 cycles, 1 cycle consisting of -30±2°C, 30 minutes 20±5°C 15 minutes 80±2°C, 30 minutes 20±5°C 15 minutes	
4	Humidity Test	40±2°C, 90~95% RH, 120 hours	
5	Vibration Test	The part shall be subjected to a vibration cycle is 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm(9.3g). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.	
6	Shock	Sounder shall be measured after being applied shock (980m/s ²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	
7	Drop Test	Dropped naturally from 700mm height onto the surface of 10mm thick wooden board. 2 directions-upper and side of the part are to be applied.	
8	Lead pull	The part shall be pushed with a force of 9.8N for 10±1 seconds behind the part. 	After the test part shall meet specifications without any degradation in appearance and performance.
9	Recommended temp. Profile for Reflow Oven	Shown in Fig.1	

Warranty: For a period of one year from date of manufacture under normal operations.

Elektrotechnik Karl-Heinz Mauz GmbH

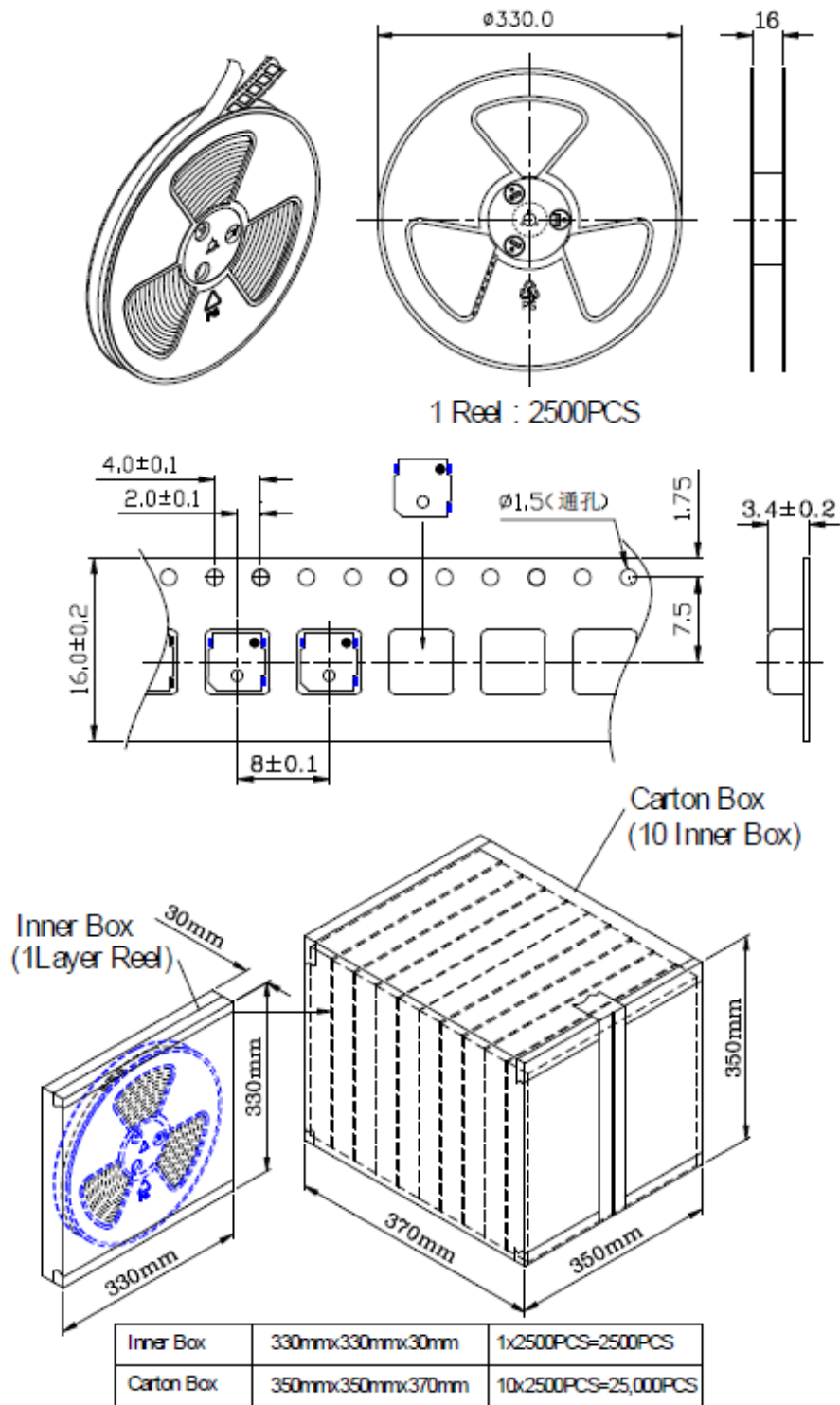
Recommended Temp. Profile for Reflow Oven (Fig.1)



Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to T_p)	3°C/second max.
Preheat	
-Temperature Min.($T_{s_{min}}$)	150°C
-Temperature Min.($T_{s_{max}}$)	200°C
-Temperature Min.(t_s)	60~180 seconds
$T_{s_{max}}$ to T_L	
-Ramp-up Rate	3°C/second max.
Time maintained above:	
- Temperature(T_L)	217°C
-Time(T_L)	60~150 seconds
Peak temperature(T_p)	250°C+0/-5°C
Time within 5°C of actual Peak temperature (t_p)	6 seconds max.
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Elektrotechnik Karl-Heinz Mauz GmbH

PACKING:



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**