SMD-Signalgeber *(ohne Ansteuerung)* **SMD-P16** ***Art.-Nr.: 220050***

Specification :

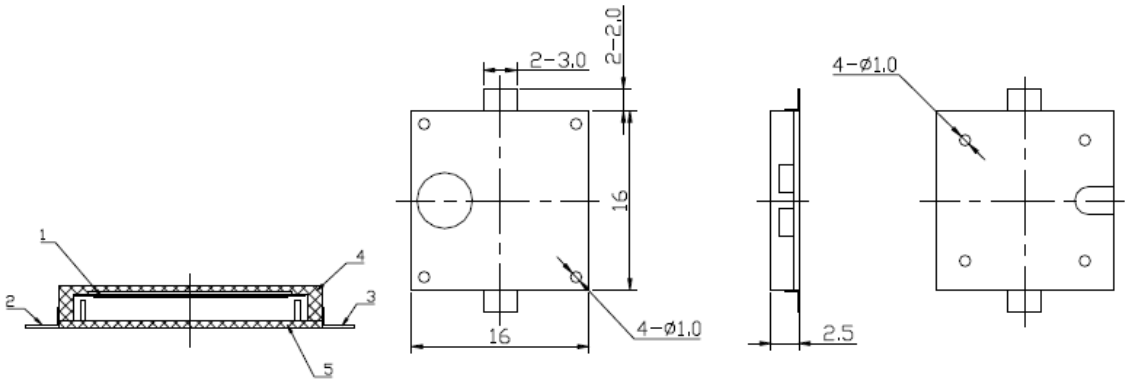
TYPE	UNIT	SMD-P16
◆Min. Sound Output at 10cm	dB	70
Rated Voltage	Vp-p	3
Operating Voltage	Vp-p	1~25
Resonant Frequency	Hz	4000
◆Max. Rated Current	mA	3
Capacitance at 1kHz	pF	14000±30%
Operating Temperature	℃	-30～+70
Storage Temperature	℃	-40～+85
Material		LCP
Weight	g	1.2

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

Dimensions :

(Unit: mm)

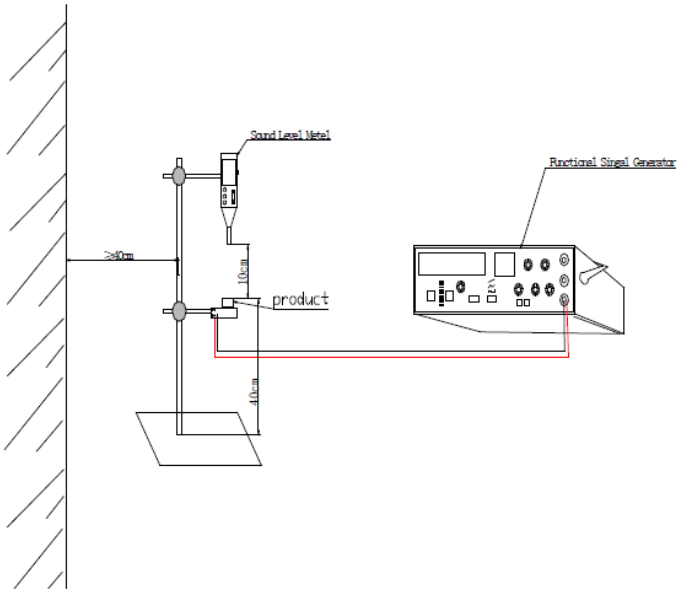
Unless otherwise specified, tolerance:±0.5(unit: mm)



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**

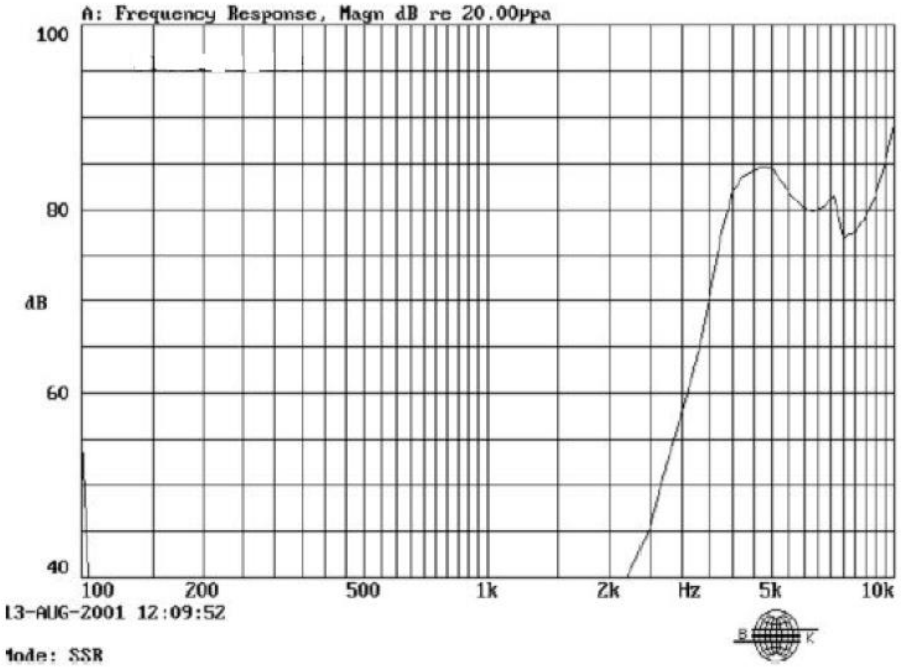
SMD-Signalgeber (ohne Ansteuerung) ***SMD-P16*** ***Art.-Nr.: 220050***

Testing Method :



Typical Frequency Response Curve :

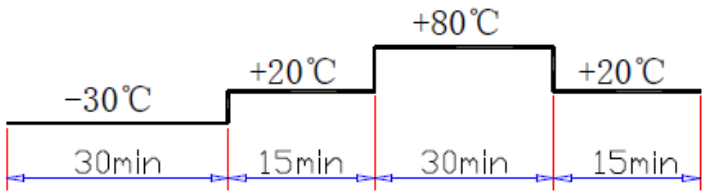
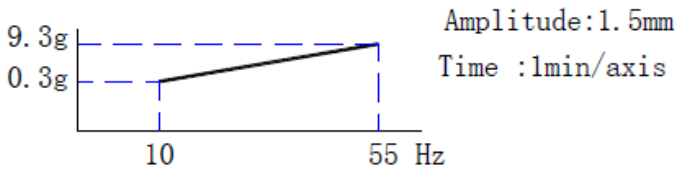
Pict



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-Signalgeber (ohne Ansteuerung) ***SMD-P16*** ***Art.-Nr.: 220050***

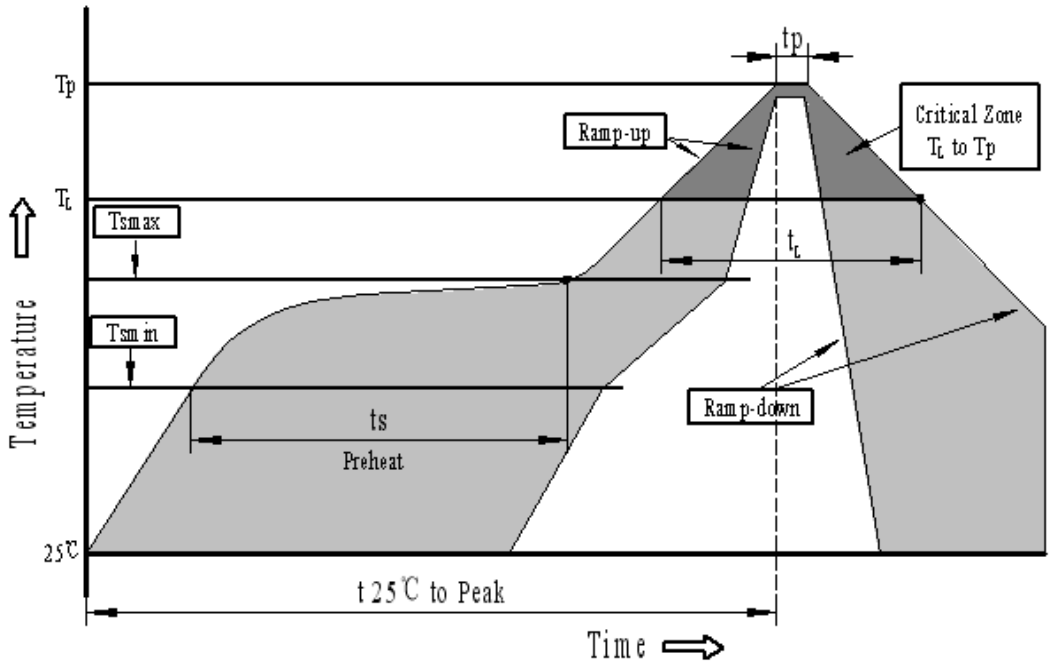
Reliability Test :

	Item	Specifications
2-1	Storage in High temp.	Storage in +85℃±2℃ test box for 96 hours，then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Low temp.	Storage in -40℃±2℃ test box for 96 hours，then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40℃±2℃ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	 Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.
2-5	Vibration test	 Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.:260±5℃ Heat applying time: 3±0.5sec.
PASS CRITERION : After these tests , the change of S.P.L shall be within ± dB .		

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-Signalgeber (ohne Ansteuerung) *SMD-P16* *Art.-Nr.: 220050*

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

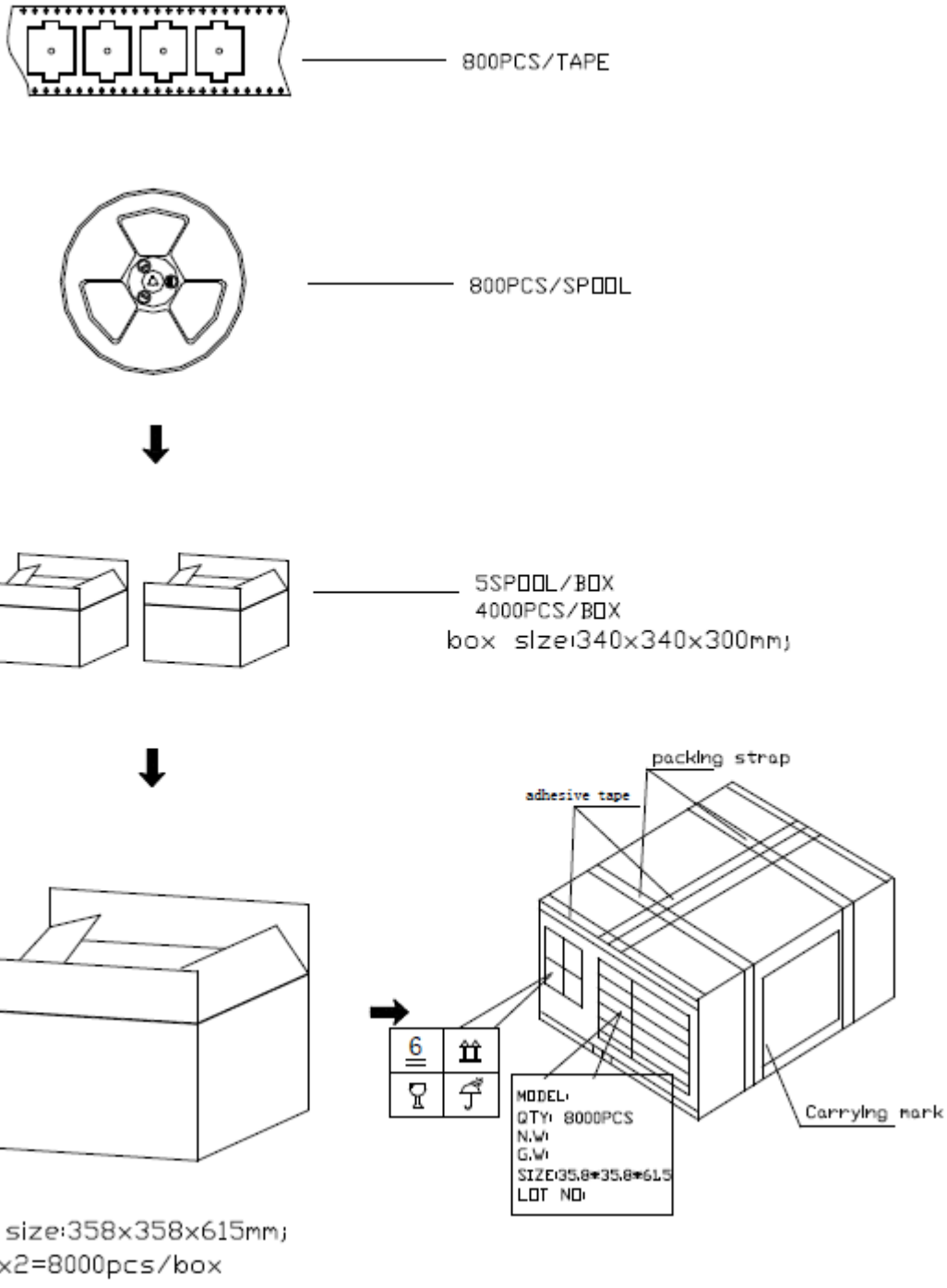


Profile Feature	Pb-Free Assembly
Average ramp-up rate(T_L to Tp)	3℃/second max.
Preheat	
-Temperature Min.(Ts_{min})	150℃
-Temperature Min.(Ts_{max})	200℃
-Temperature Min.(ts)	60～180 seconds
Ts_{max} to T_L	
-Ramp-up Rate	3℃/second max.
Time maintained above:	
- Temperature(T_L)	217℃
-Time(T_L)	60～150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

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-Signalgeber (ohne Ansteuerung) ***SMD-P16*** ***Art.-Nr.: 220050***

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**