

Applications

SmartWearable
IOT Communication.

Features

- Dimensions: 3.20 x 2.50 x 0.80 mm.
- Standard Freq: 11.0592~54MHz
- 4 pads SMD glass sealed crystal units.
- Contains Pb in sealing glass exempted by RoHS directive.



Specifications

Standard Frequency	11.0592~54 MHz
Vibration Mode	AT Fundamental
Load Capacitance	10pF, 20pF, or specify
Frequency Tolerance (at 25 °C)	±10ppm, ±20ppm, or specify
Frequency Versus Temperature Characteristics	±20ppm, or specify
Operating Temperature	-20~+70°C, -40~+85°C, or specify
Storage Temperature	-40~+85°C or specify
Shunt Capacitance	5 pF Max.
Level of Drive	1~100µW Max. (100uW typical)
Aging (at 25 °C)	±3ppm/year Max.

Equivalent Series Resistance(ESR)

Fundamental	
11.0592 ~ 16MHz	80 Ω Max.
16 ~ 25 MHz	60 Ω Max.
25 ~ 54 MHz	40 Ω Max.

Dimensions and Patterns [unit:mm]

Package Size – Dimensions (Unit: mm)	
Top View Side View Bottom View	Top View Crystal Connection Top View Suggested Layout

CRYSTAL UNIT

YSX320GA

Glass Sealed



Reflow Soldering Profile

Pre Heating Temperature

Tp1 ~ Tp2 = + 170 °C

Heating Temperature

TmIt = + 220 °C

Peek Temperature

TMax. = + 260 °C

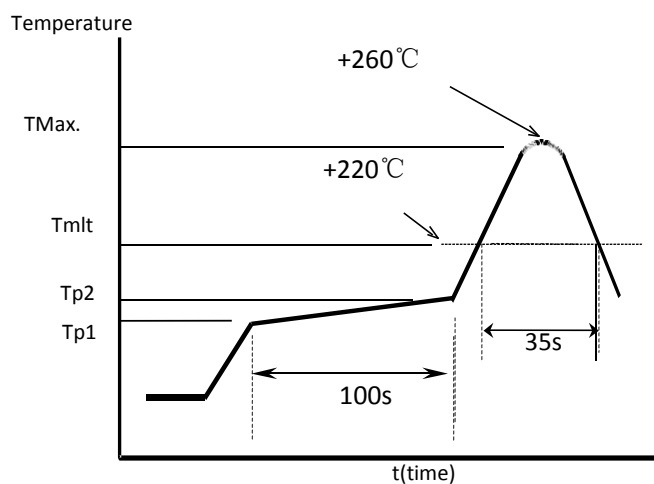
Point of measuring

In case of Solder ability

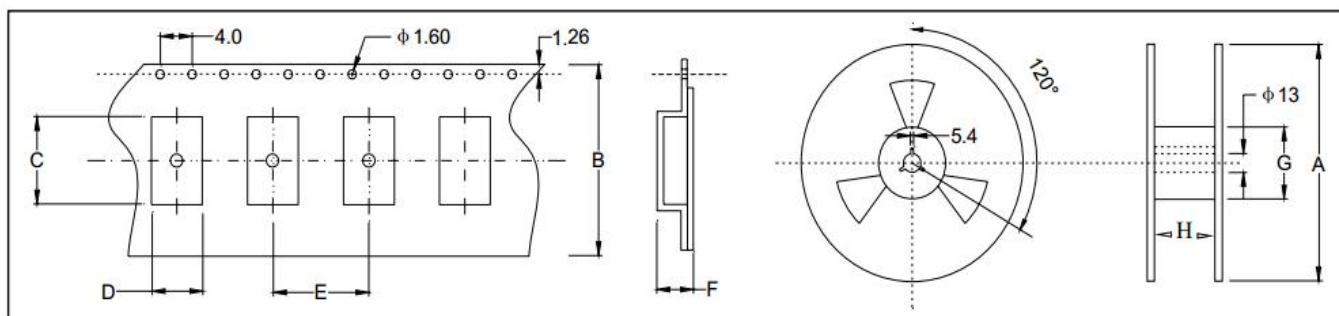
Terminal.

In case of Resistance to soldering heat

Surface.



Taping Specification(Unit: mm)



Size	A	B	C	D	E	F	G	H
SMD-3225	180±2.0	8.0±0.3	3.80±0.1	3.00±0.1	4.00±0.3	1.54±0.1	61.0±1.0	8.0±1.0
3000 pcs per reel								