

CRYSTAL OSCILLATOR

YSO130HR High Voltage



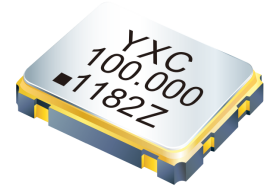
Applications

- Consumer Electronics
- Industrial Control

Features

- Frequency range:1MHz-100MHz.
- Ultra Small SMD seam sealed crystal oscillator units.

- Package Size: 3.2*2.5 , 5.0*3.2
7.0*5.0mm



Specifications

Frequency Range	1MHz to 100MHz,or specify
Parameter	5V
Output Type	CMOS
Frequency Tolerance(at 25°C)	±10ppm,±20ppm,or specify
Output Load	15pF
Operating Temperature Range	-40~+85°C,-40~+125°C,or specify
Storage Temperature Range	-55~+125°C
Frequency Versus Temperature Characteristics	± 20ppm, ± 30ppm, ± 50ppm, or specify
Voltage Vol (Max.) / Vol (Min.)	VOH = 90%Vdd/VOL = 10%Vdd
Duty Cycle	45~55%
Rise(Tr) /Fall(Tf) Time	4ns Max.
Start-up Time	3ms Max.
Supply Current	See Below
Frequency Aging (at 25°C)	±3 ppm / year Max.

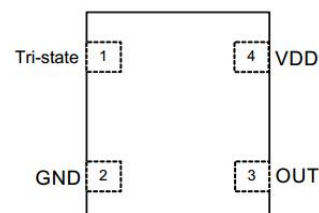
Current Consumption

Power Dissipation 15pF only		
Frequency	5V	
	7050/5032	3225
1~36MHZ	8mA max	8mA max
36~70MHZ	20mA max	20mA max
70~100MHZ	55mA max	25mA max

Pin Dimension

Pin	#1	#2	#3	#4
FUNCTION	Tri-state	GND	OUTPUT	VDD

Pin Assignments



CRYSTAL OSCILLATOR

YSO130HR High Voltage



Dimensions and Patterns [unit:mm]

Package Size – Dimensions (Unit: mm)	Recommended Land Pattern (Unit: mm)
<p>3.2*2.5mm</p>	
<p>5.0*3.2mm</p>	
<p>7.0*5.0mm</p>	
<p>Notes: 1.A capacitor of value 0.01uf~0.1uf or higher between Vdd and GND is required.</p>	

CRYSTAL OSCILLATOR

YSO130HR High Voltage



Reflow Soldering Profile

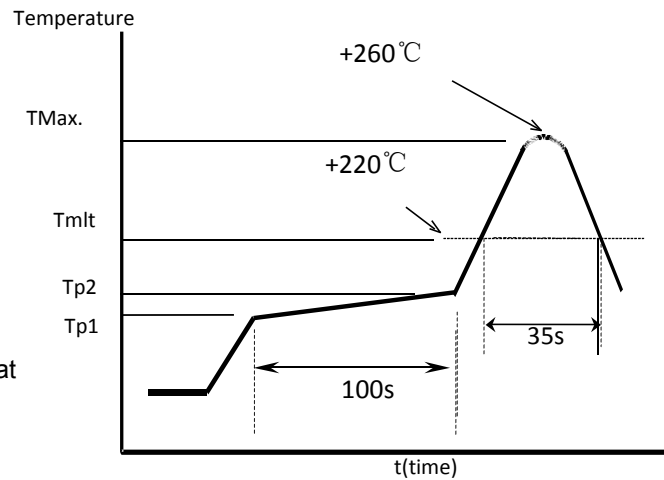
Pre Heating Temperature
Tp1 ~ Tp2 = + 170 °C

Heating Temperature
TMit = + 220 °C

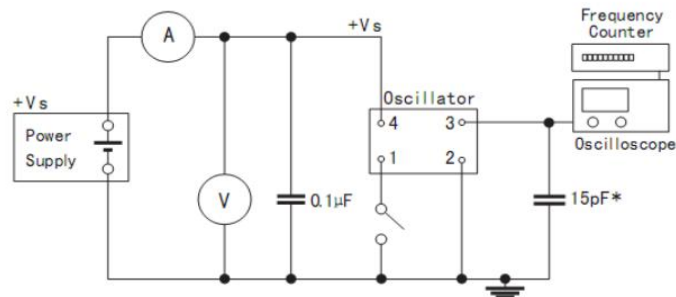
Peak Temperature
TMax. = + 260 °C

Point of measuring
In case of Solder ability
Terminal.

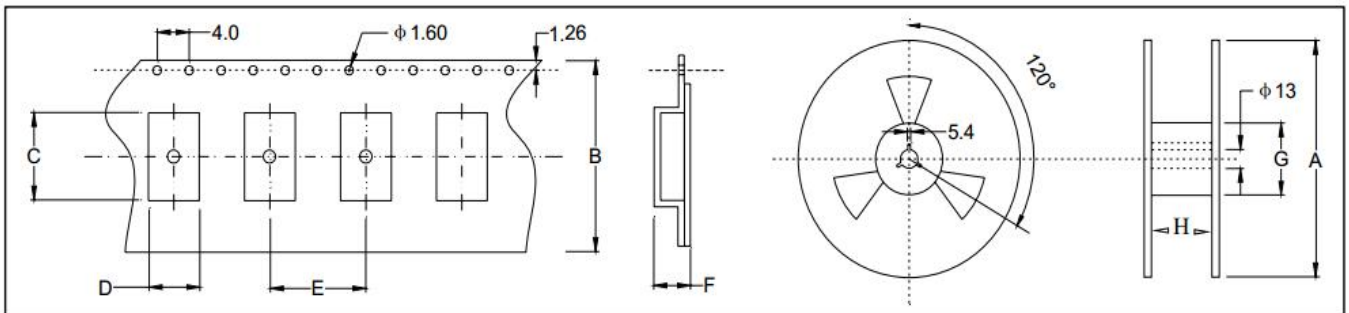
In case of Resistance to soldering heat
Surface.



Test Circuit



Taping Specification(Unit: mm)



Size(OSC)	A	B	C	D	E	F	G	H
SMD-7050	180±2.0	16.0±0.3	7.50±0.1	5.50±0.1	8.0±0.1	2.00±0.1	61.0±1.0	16.0±1.0
SMD-5032	180±2.0	12.0±0.3	5.40±0.1	3.60±0.1	8.0±0.1	1.70±0.1	61.0±1.0	12.0±1.0
SMD-3225	180±2.0	8.0±0.3	3.40±0.1	2.70±0.1	4.0±0.1	1.50±0.1	61.0±1.0	8.0±1.0