CRYSTAL OSCILLATOR YSO110TR Wide Voltage











Applications

Consumer Electronics Industrial Control

Features

- Frequency range:1MHz-54MHz
- Ultra Small SMD seam sealed crystal oscillator units.

Package Size: 1.6*1.2 , 2.0*1.6

2.5*2.0 , 3.2*2.5 , 5.0*3.2 , 7.0*5.0mm

Specifications

Frequency Range	1MHz to 54MHz,or specify				
Parameter	1.8V~3.3V				
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℃				
Frequency Versus Temperature Characteristics	± 20ppm, ± 30ppm, ± 50ppm, or specify				
Voltage Vol(Max.)/ Vol(Min.)	VOH = 90%Vdd/VOL = 10%Vdd				
Duty Cycle	45~55%				
Start-up Time	3ms Max.				
Rise Time/Fall Time	4nS Max				
Supply Current	See Below				
Frequency Aging (at 25℃)	±3 ppm / year Max.				

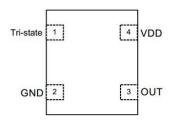
Current Consumption

Power Dissipation Vcc=1.8~3.3V 15pF only						
Supply Voltage (V)	1.000~40.000MHZ		41.000~54.000MHZ			
	7050/5032/3225		7050/5032/3225/2520	2016/1612		
1.8V	4mA max		9mA max			
2.5V	4.5mA max	4mA max 10mA max		10mA max		
3.3V	5mA max		12mA max			

Pin Dimension

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

Pin Assignments



CRYSTAL OSCILLATOR





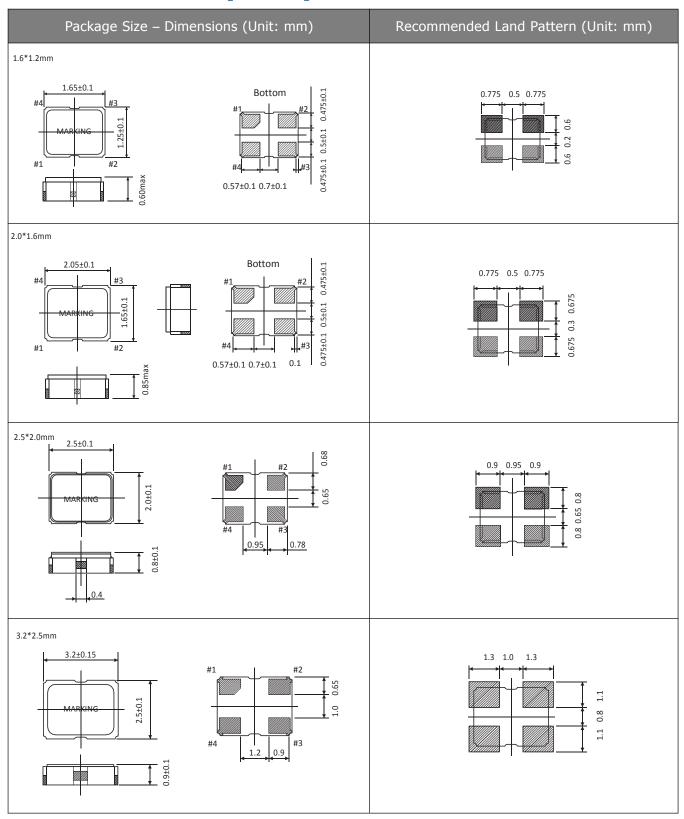








Dimensions and Patterns [unit:mm]



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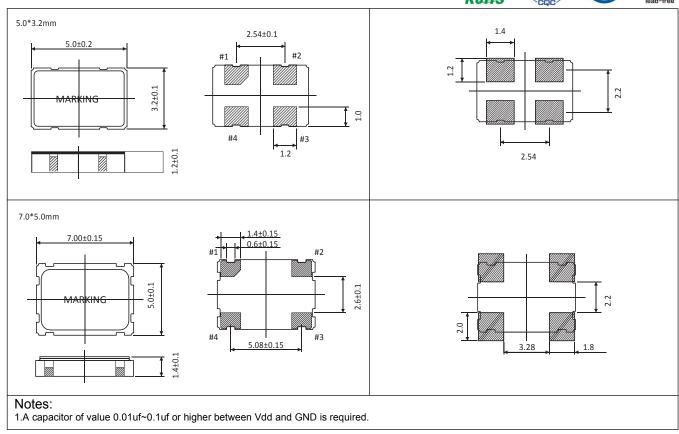








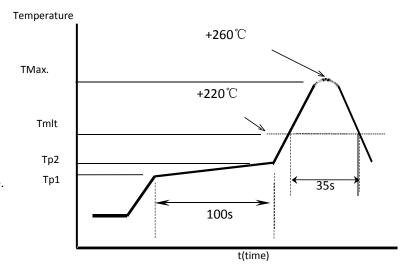




Reflow Soldering Profile

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.



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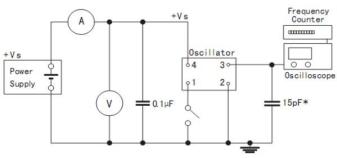




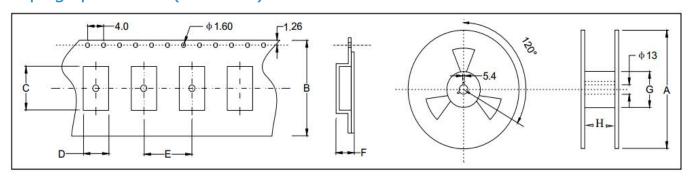


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Test Circuit



Taping Specification(Unit: mm)



Size(OSC)	А	В	С	D	Е	F	Ð	Н
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
SMD-2520	180±2.0	8.0±0.3	2.90±0.1	2.40±0.1	4.0±0.1	1.20±0.1	61.0±1.0	8.0±1.0
SMD-2016	180±2.0	8.0±0.3	2.30±0.1	1.90±0.1	4.0±0.1	0.95±0.1	61.0±1.0	8.0±1.0
SMD-1612	180±2.0	8.0±0.3	1.80±0.1	1.40±0.1	4.0±0.1	0.80±0.1	61.0±1.0	8.0±1.0

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