

SM7050-6

Features:

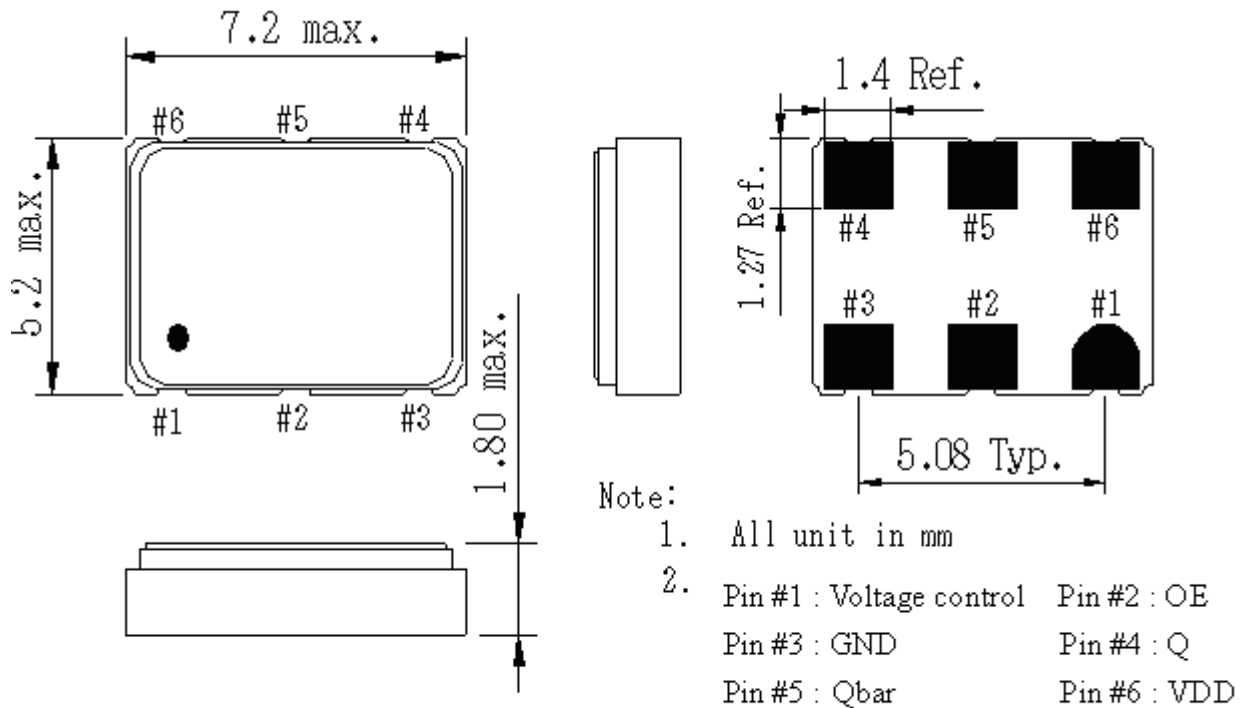
- 3.3V Operation / Complementary PECL Output
- Enable / Disable Function (6-Pad)
- Main application: WLAN, SONET/SDH/DWDM, Gigabit Ethernet, Storage Area Network, Digital Video.
- Surface mount 5.0mmx7.0mm crystal oscillator

Electrical Specifications:

Characteristics	Units	Minimum	Typical	Maximum
Center Frequency	MHz		122.88	
Storage Temperature Range	°C	-40		85
Operating Temperature Range	°C	-40		85
* Absolute Pulling Range (APR)	ppm	+/-50	-	-
Input Voltage (Operating Vdd)	VDC	-	3.3+/-10%	-
Control Voltage (Vt)	VDC		1.65+/-1.35	
Current Consumption	mA	-	-	80
Output				
Load	ohm	-	50	-
“0” Level (Output Logic Low)	VDC	Vdd-1.81	-	Vdd-1.62
“1” Level (Output Logic High)	VDC	Vdd-1.025	-	Vdd-0.88
Duty Cycle	%	45%	-	55%
Rise Time (20%→80% VDD)	nSec	-	-	1.0
Fall Time (80%→20% VDD)	nSec	-	-	1.0
Start-up Time	ms	-	-	10
Enable Voltage High(Logic 1)	V	0.7VDD	-	-
Enable Voltage Low(Logic 0)	V	-	-	0.3VDD
Phase Jitter (Integrated 12K~20MHz)	ps	-	-	1.0
Linearity	%	-	-	10
Enable/Disable Function		PIN#2: High or Open , PIN#4, #5: Enable PIN#2: Low , PIN#4, #5: Disable		
Package size		SMD7.0x5.0x1.8mm		

* Note1 : APR=Pull Range-(frequency tolerance at 25°C,variation over temperature, supply voltage and aging)

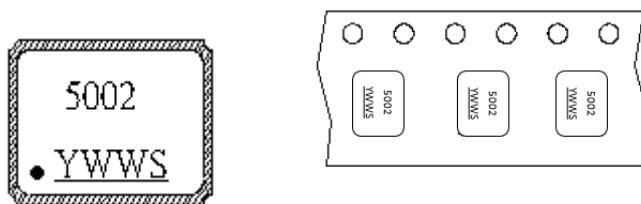
Mechanical Dimensions (mm):



Marking:

Line 1: 5002

Line 2: YWWS(year ;week number ;shift)

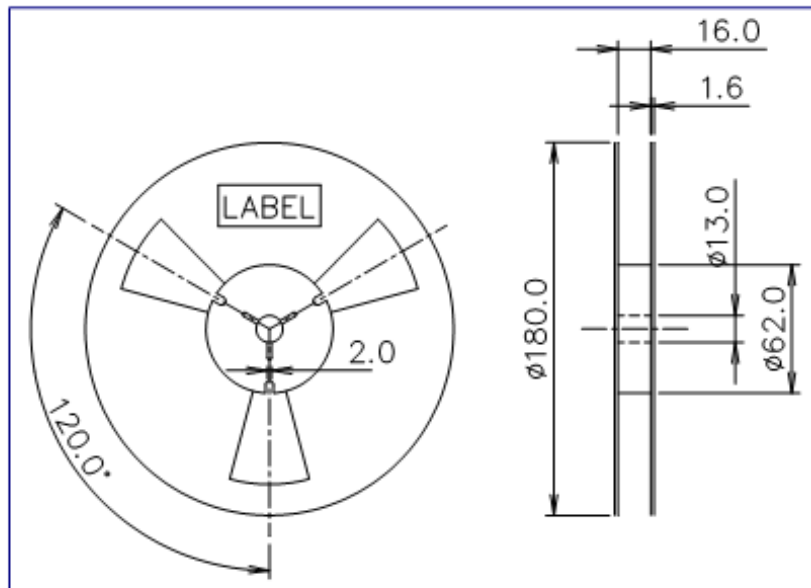


Shift Code Table

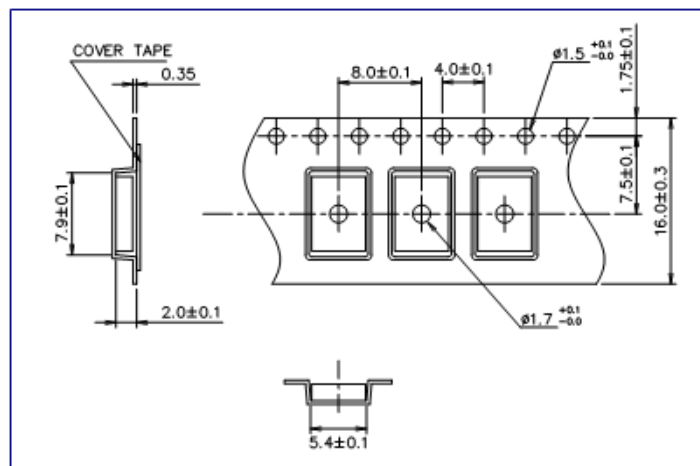
	Mon	Tue	Wed	Thu	Fri	Sat	Sun
A Shift	A	D	G	K	N	S	V
B Shift	B	E	H	L	P	T	W
C Shift	C	F	J	M	R	U	X

Tape & Reel:

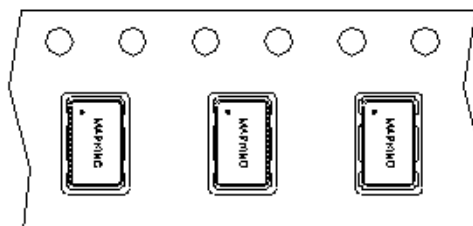
- Packing Quantity: 1k /Reel
- Reel dimension (unit: mm)



- Tape dimension (unit: mm)



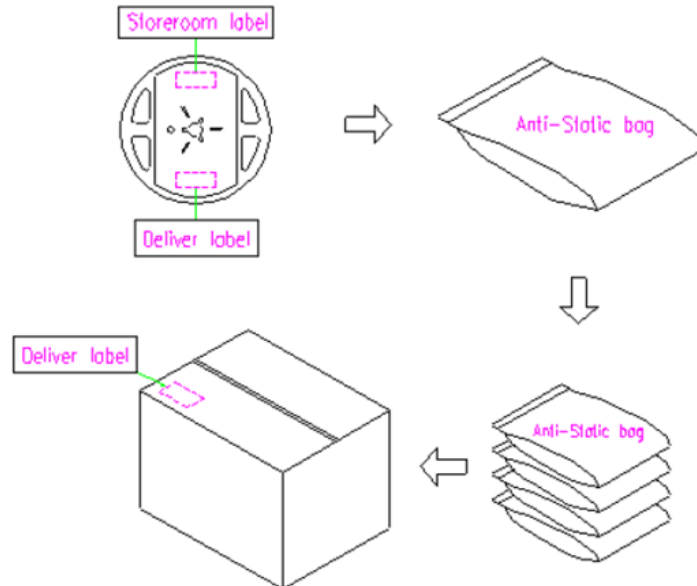
- Packing direction



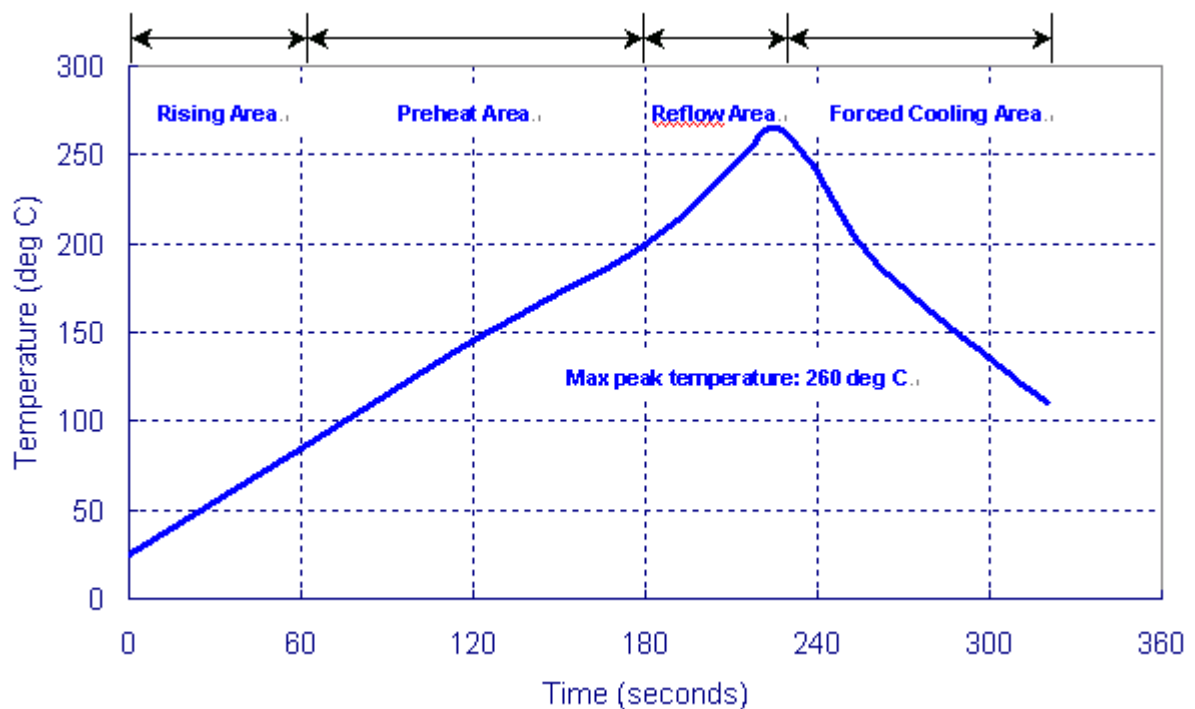
Packing Quantity/Packing:

1K pcs maximum per reel

Packing Quantity/Packing:



Reflow Profile:



Note: 1. Max peak temperature: 260+/-5 deg C; Time: 10+/-2 sec
2. Temperature: 217+/-5 deg C; Time: 90~100 sec

Reliability Specifications

Test name	Test process / method	Reference standard
Mechanical characteristics		
resistance to Soldering heat (IR reflow)	Temp./ Duration : 260°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	MIL-STD 202F method 201A
Mechanical Shock	directions : 3 impacts per axis Acceleration : 3000g's, +20/-0 % Duration : 0.3 ms (total 18 shocks) Waveform : Half-sine	MIL-STD 202F method 213C
Solderability	Solder Temperature:265±5°C Duration time: 5±0.5 seconds.	MIL-STD 883G method 2003
Environmental characteristics		
Thermal Shock	Heat cycle conditions -55 °C (30min) ↔ 125 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.7
Humidity test	Temperature : 70 ± 2 °C Relative humidity : 90~95% Duration : 96 hours	MIL-STD 202F method 103B
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 168 hours	MIL-STD 883G method 1008.2 condition C
PCT test	Pressure: 2.06kg/cm ² (2.03*10 ⁵ pa) Temperature : 121 ± 2 °C Relative humidity : 100% Duration : 24 hours	EIAJED-4701-3 B-123A



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.