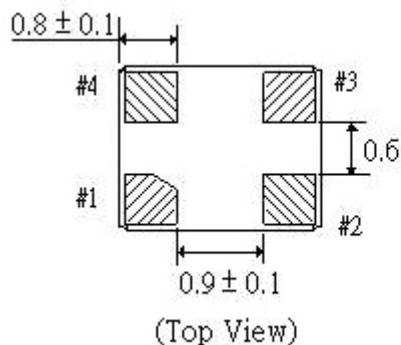
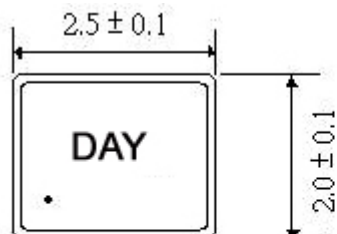


Crystal Oscillator Series											
OSC 2520B								Features ◆RoHS Compliant ◆HCMOS/TTL compatible			
Electrical Specifications											
Item		Specifications									
Type		1.8V		2.5V		3.3V					
Nominal Frequency Range		32.768KHZ									
		0.032768MHz to 200.000MHz									
Frequency Stability		±20ppm(Standard) at 25℃±3℃, ±10ppm to ±100ppm available									
Operating Temperature		-20℃ to +70℃(Standard), -40℃ to +85℃ available									
Storage Temperature		-55℃ to +125℃									
Supply Voltage		1.8V±10%		2.5V±10%		3.3V±10%					
Supply Current Max.		MHz		MHz		MHz					
		0.032~0.99 4mA		0.032~0.99 5mA		0.032~0.99 8mA					
		1.0~74.99 7mA		1.0~74.99 10mA		1.0~74.99 12mA					
		75.0~135.0 11mA		75.0~168.0 15mA		75.0~200.0 25mA					
Output	Rise & Fall Time	200ns: 0.032 to 0.39MHz		12ns: 0.40 to 0.99MHz							
		9ns: 1.0 to 19.99MHz		5ns: 20.0 to 39.99MHz							
		4ns: 40.0 to 119.99MHz		2ns: 120.0 to 200.0MHz							
	Load	15PF									
	Current Max.	10mA									
Low Level	V _{DC} ×0.1 Max.										
High Level	V _{DC} ×0.9 Min.										
Symmetry at 1/2 V _{DC}		45/55% typical,40/60% available									
Start Up Time		<4ns									
Aging		±2ppm/year									
Stability vs. Temperature											
◆ Standard		2	3	5	0	6	7	Remarks			
◇ Please specify		±20ppm	±30ppm	±50ppm	±100ppm	±10ppm	±15ppm				
C	-20℃ to +70℃	◆	◇	◇	◇	◇	◇	Standard			
D	-40℃ to +85℃	◇	◇	◆	◇	◇	◇				
Ordering Information											
Q	O	Type	Pin	XX.XXXX XXX.XXX	M	Output Load	Supply Voltage	Stability Vs.Temp.	Operating Temp.	Symmetry At 1/2 V _{bc}	Option
Q:Quartz	22:		B:	Center frequency	M:		A:3.3V				F:Lead Free
O:Oscillator	2.5*2.0mm		4Pins	0.032 to 200MHz	MHz	1: 15pF	C:2.5V				T:T&R
							D:1.8V	See Table	See Table	1:45/55%	Blank:Bulk
										2:40/60%	
Example:QO22B20.0000M1A2C1FT											
(Oscillator,2.5*2.0mm ,4Pins, 20.0000MHz, 15pF, 3.3V, +/-20ppm,-20 to +70deg., 45/55%,T&R,Lead free)											

Crystal Oscillator Series

OSC 2520B

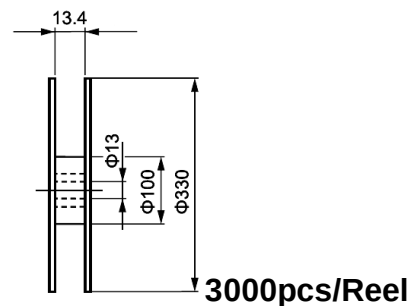
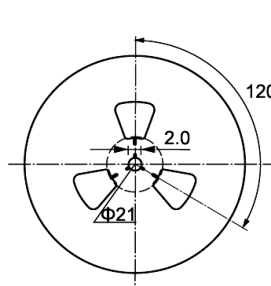
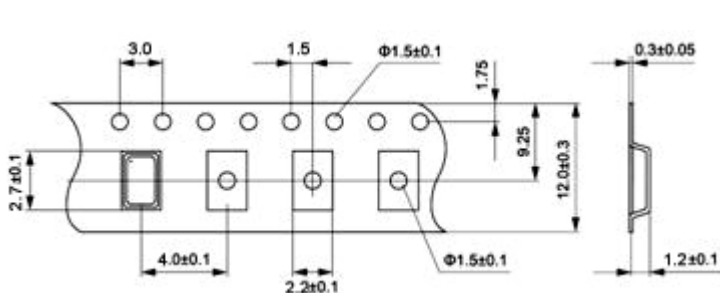
Dimensions



Pin	Connection
#1	E/D
#2	GND
#3	OUTPUT
#4	V _{DC}

UNIT:mm

Taping Specification



Reflow Soldering Profile

