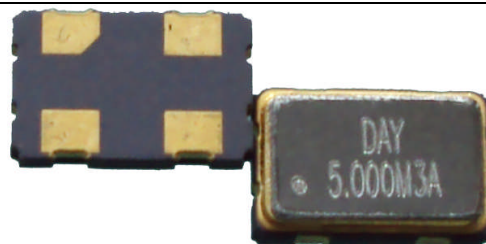


Crystal Oscillator Series

OSC 5032B

Features

- ◆RoHS Compliant
- ◆HCMOS/TTL compatible



Electrical Specifications

Electrical Specifications		Specifications							
Item		1.8V		2.5V		3.3V		5.0V	
Nominal Frequency Range		32.768KHZ							
		0.032768MHz to 125.000MHz							
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%		5.0V±10%	
Supply Current Max.		MHz	15pF	30pF	MHz	15pF	30pF		
		0.032 to 0.99	5mA	10mA	0.032 to 0.99	7mA	15mA		
		1.0 to 19.99	7mA	15mA	1.0 to 19.99	10mA	20mA		
		20.0 to 69.99	15mA	20mA	20.0 to 69.99	30mA	35mA		
		70.0 to 125.0	20mA	25mA	70.0 to 125.0	35mA	40mA		
		125.0 to 180	25mA	30mA	125.0 to 180	40mA	40mA		
Output	Rise & Fall Time	150ns: 0.032 to 0.39MHz		6ns: 0.40 to 19.99MHz					
		5ns: 20.0 to 39.99MHz		4ns: 40.0 to 69.99MHz					
		3ns: 70.0 to 125.0MHz		2ns: 125.0 to 180.0MHz					
	Load	15pF: 0.032 to 180.00MHz		15pF: 0.032 to 180.00MHz					
		30pF: 1.0 to 50.00MHz		30pF: 1.0 to 80.00MHz					
	Current Max.	8mA				16mA			
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		<10ns							
Aging		±2ppm/year							

Stability vs. Temperature

◆ Standard		2	3	5	0	6	7	Remarks
◇ Please specify		±20ppm	±30ppm	±50ppm	±100ppm	±10ppm	±15ppm	
C	-20°C to +70°C	◆	◇	◇	◇	◇	◇	Standard
D	-40°C to +85°C	◇	◇	◆	◇	◇	◇	

Crystal Oscillator Series

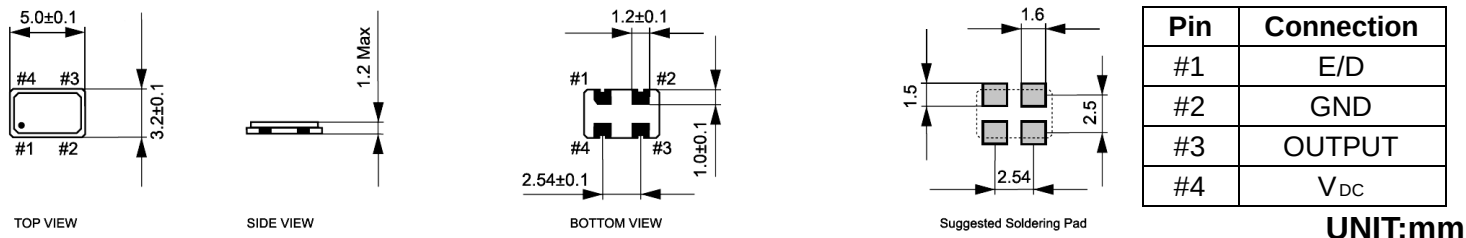
OSC 5032B

Ordering Information

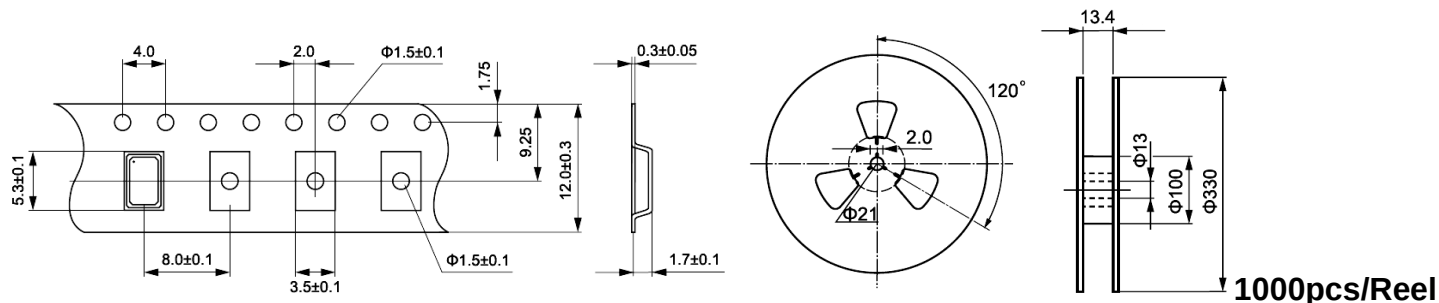
Q	O	Type	Pin	XX.XXXX XXX.XXX	M	Output Load	Supply Voltage	Stability Vs.Temp.	Operating Temp.	Symmetry At 1/2 V _{cc}	Option
Q: Quartz O: Oscillator	53: 5.0*3.2mm	B: 4Pins		Center frequency 0.032 to 180.0MHz	M: MHz	1: 15pF 2: 30pF	A: 3.3V B: 5.0V C: 2.5V D: 1.8V	See Table	See Table	1: 45/55% 2: 40/60%	F: Lead Free T: T&R Blank: Bulk

Example: QO53B20.0000M1A2C1FT (Oscillator, 5*3.2, 4Pins, 20.0000MHz, 15pF, 3.3V, +/-20ppm, -20 to +70deg., 45/55%, T&R, Lead free)

Dimensions



Taping Specification



Reflow Soldering Profile

