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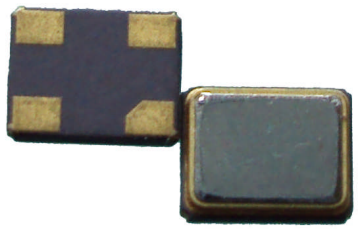
RoHS 2002/95/EC

Crystal Oscillator Series	Features
OSC 3225B	◆RoHS Compliant ◆HCMOS/TTL compatible



Electrical Specifications

Item		Specifications		
Type		1.8V	2.5V	3.3V
Nominal Frequency Range		32.768KHZ		
		0.032768MHz to 80.000MHz		
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 0.032~0.99 4mA 1.0~74.99 7mA 75.0~135.0 11mA	MHz 0.032~0.99 5mA 1.0~74.99 10mA 75.0~168.0 15mA	MHz 0.032~0.99 8mA 1.0~74.99 12mA 75.0~200.0 25mA
Output	Rise & Fall Time	180ns: 0.032 to 0.39MHz 7ns: 1.0 to 19.99MHz 4ns: 40.0 to 119.99MHz	9ns: 0.40 to 0.99MHz 5ns: 20.0 to 39.99MHz 2ns: 120.0 to 200.0MHz	
	Load	15PF		
	Current Max.	15mA		
	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		<5ns		
Aging		±2ppm/year		

Stability vs. Temperature

◆ Standard ◇ Please specify		2 ±20ppm	3 ±30ppm	5 ±50ppm	0 ±100ppm	6 ±10ppm	7 ±15ppm	Remarks
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_{DC}	Option
Q:Quartz O:Oscillator		32: 3.2*2.5mm	B: 4Pins	Center frequency 0.032 to 200MHz	M: MHz	1: 15pF	A:3.3V 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:QO32B20.0000M1A2C1FT

(Oscillator,3.2*2.5mm ,4Pins, 20.0000MHz, 15pF, 3.3V, +/-20ppm,-20 to +70deg., 45/55%,T&R,Lead free)

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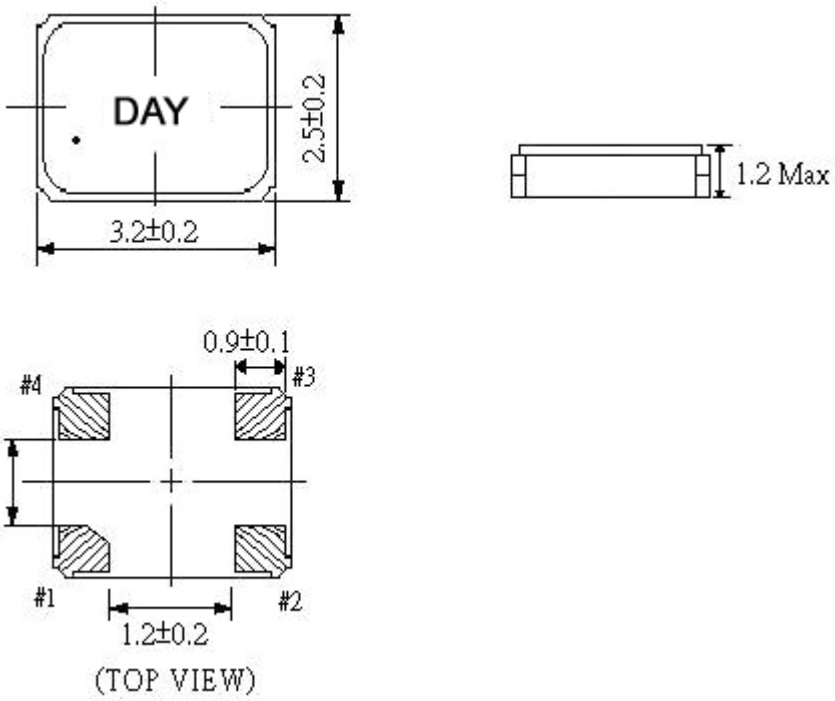
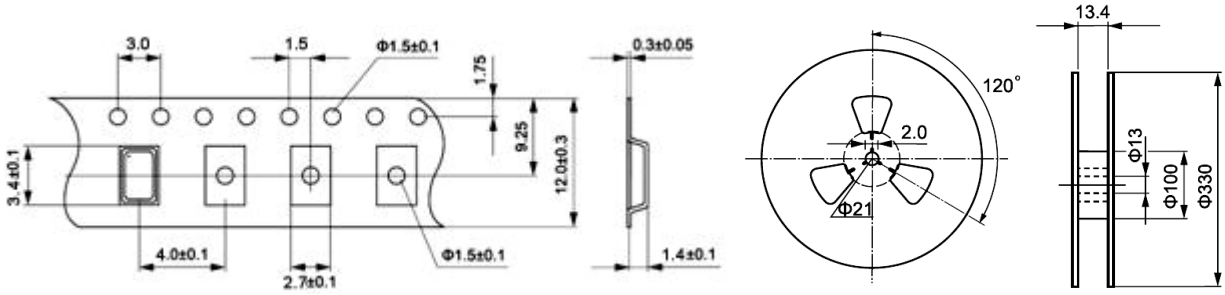
Dimensions



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

UNIT:mm

Taping Specification



3000pcs/Reel

Reflow Soldering Profile