

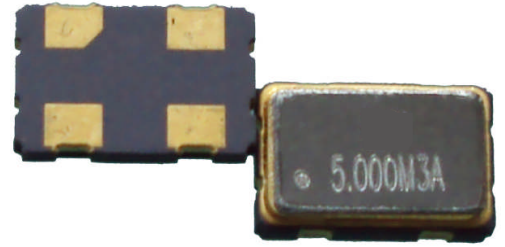
Crystal Oscillator Series

OSC 5032B

Features

◆RoHS
Compliant

◆HCMOS/TTL compatible



Electrical Specifications

Item		Specifications					
Type		1.8V	2.5V	3.3V	5.0V		
Nominal Frequency Range		32.768KHZ 0.032768MHz to 125.000MHz					
Frequency Stability		±20ppm(Standard) at 25°C±3°C, ±10ppm to ±100ppm available					
Operating Temperature		-20°C to +70°C(Standard), -40°C to +85°C available					
Storage Temperature		-55°C to +125°C					
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	◇	◇	◆	◇	◇	◇	

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Ordering Information

Q	O	Type	Pin	XX.XXXX XXX.XXX	M	Output Load	Supply Voltage	Stability Vs. Temp.	Operating Temp.	Symmetry At 1/2 Vbc	Option
Q: Quartz	53:		B:	Center frequency			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
O:Oscillator	5.0*3.2mm		4Pins	0.032 to 180.0MHz	M:	1: 15pF 2: 30pF					
Example: QO53B20.0000M1A2C1FT (Oscillator, 5*3.2, 4Pins, 20.0000MHz, 15pF, 3.3V, +/-20ppm, -20 to +70deg., 45/55%, T&R, Lead free)											

Dimensions

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

UNIT:mm

Taping Specification

1000pcs/Reel

Reflow Soldering Profile

