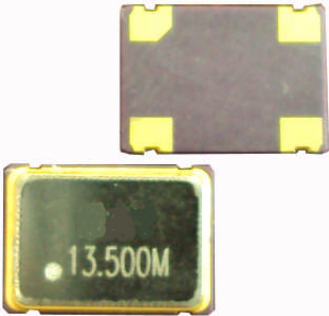




Crystal Oscillator Series			
OSC 7050B			
Features	◆Ceramic/Metal package		
◆RoHS Compliant	◆HCMOS/TTL compatible		

Electrical Specifications

Item	Specifications							
Type	1.8V	2.5V	3.3V	5.0V				
Nominal Frequency Range	32.768KHz 0.015MHz to 180.000MHz							
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	50pF	
	0.015 to 9.99	5mA	10mA	0.015 to 9.99	7mA	10mA	15mA	
	10.0 to 19.99	7mA	12mA	10.0 to 19.99	10mA	15mA	20mA	
	20.0 to 39.99	15mA	20mA	20.0 to 39.99	20mA	25mA	30mA	
	40.0 to 69.99	20mA	20mA	40.0 to 69.99	30mA	35mA	40mA	
	70.0 to 99.99	30mA	30mA	70.0 to 99.99	35mA	40mA	40mA	
100 to 180	40mA	40mA	100 to 180	40mA	40mA	40mA	40mA	
Output	Rise & Fall Time	150ns:	0.015 to 0.999MHz	6ns:	1.00 to 9.99MHz			
		5ns:	10.0 to 39.99MHz	4ns:	40.0 to 69.99MHz			
		3ns:	70.0 to 125.0MHz	2ns:	125.0 to 180.0MHz			
	Load	15pF:	0.015 to 180.0MHz		15pF:	0.015 to 180.0MHz		
		30pF:	1.0 to 70.00MHz		30pF:	1.0 to 70.00MHz		
50pF:		1.0 to 40.00MHz		50pF:	1.0 to 40.00MHz			
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 7050B

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	75: 7.0*5.0mm	B: 4Pins	Center frequency 0.015MHZ to180.0MHZ	M: MHz	1: 15pF 2: 30pF 3: 50pF	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: QO75B33.3333M1A2C1F (Oscillator, 7.0*5.0, 4Pins, 33.3333MHz, 3.3V, 15pF, 45/55%, +/-20ppm, -20 to +70deg., 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

