


Crystal Oscillator Series					
OSC SMD7050B		Features	◆ Ceramic/Metal package	◆ RoHS Compliant	◆ HCMOS/TTL compatible

Electrical Specifications

Item		Specifications						
Type		OSC SMD7050B 3.3V			OSC SMD7050B 5.0V			
Nominal Frequency Range		1.000MHz to 125.000MHz						
Frequency Stability		±50ppm(Standard) at 25°C±3°C, ±15ppm to ±100ppm available						
Operating Temperature		-10°C to +70°C(Standard), -40°C to +85°C available						
Storage Temperature		-55°C to +125°C						
Supply Voltage		3.3V±10%			5.0V±10%			
Supply Current Max.		MHz	15pF	30pF	MHz	15pF	30pF	50pF
		1.0 to 9.999	5mA	10mA	1.0 to 9.999	10mA	10mA	15mA
		10.0 to 19.99	10mA	10mA	10.0 to 19.99	10mA	15mA	20mA
		20.0 to 39.99	15mA	20mA	20.0 to 39.99	15mA	20mA	30mA
		40.0 to 69.99	20mA	20mA	40.0 to 69.99	20mA	20mA	
		70.0 to 99.99	30mA		70.0 to 99.99	30mA		
		100 to 125	45mA		100 to 125	45mA		
Output	Rise & Fall Time	6ns:	1.0 to 9.999MHz		4ns:	40.0 to 69.99MHz		
		5ns:	10.0 to 39.99MHz		3ns:	70.0 to 125.0MHz		
	Load	15pF:	1.0 to 125.0MHz		15pF:	1.0 to 125.0MHz		
		30pF:	1.0 to 70.00MHz		30pF:	1.0 to 70.00MHz		
		50pF:			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							

Stability vs. Temperature

◆ Standard		2	3	5	0	6	7	Remarks
◇ Please specify		±20ppm	±30ppm	±50ppm	±100ppm	±15ppm	±25ppm	
C	-10°C to +70°C	◇	◇	◆	◇	◇	◇	Standard
D	-40°C to +85°C	◇	◇	◇	◆	◇	◇	

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	7050:	B:	Center frequency	M:	1: 15pF	A:3.3V	See Table	See Table	1:45/55%	2:40/60%	F:Lead Free T:T&R Blank:Bulk
O:Oscillator	7.0*5.0mm	4Pins	1.0 to125.0MHz	MHz	2: 30pF 3: 50pF	B:5.0V					
Example:QO7050B33.3333M1A5C2F (Oscillator,SMD7050B ,33.3333MHz, 3.3V, 15pF,40/60%, +/-50ppm,-10 to +70deg.,T&R,Lead free)											

