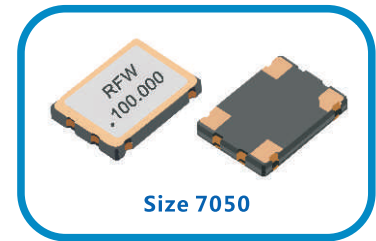


Crystal Oscillator SMD 7050

Feature

- Typical 7.0 x 5.0 x 1.3 mm ceramic SMD package.
- Tight symmetry (45 to 55 %) available.
- Packing: Tape & Reel, 1000pcs per Reel.
- Application: WLAN; xDSL; Fiber/10G Net Ethernet; PDA; Netbook; Base Station; VGA Card.



Specifications

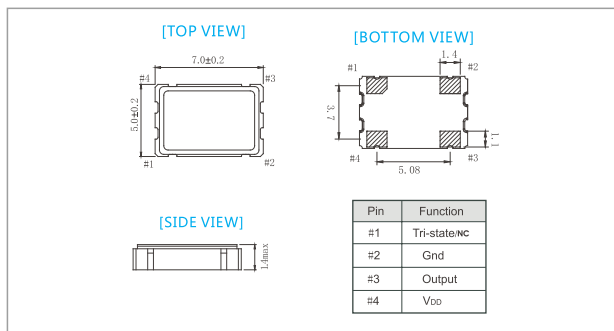
RoHS Compliant



REACH Compliant

Parameter	3.3V		2.5V		1.8V		unit
	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation (Vdd) 10%	2.97	3.63	2.25	2.75	1.62	1.98	V
Frequency Range	0.0137	166	0.0137	133	0.0137	125	MHz
Supply Current							mA
13.7 kHz < Fo < 70 kHz	—	1	—	0.5	—	0.1	
0.3125 MHz < Fo < 35.328 MHz (A1)	—	10	—	8	—	7	
30 MHz < Fo < 75 MHz	—	20	—	18	—	15	
75 MHz < Fo < 133 MHz	—	35	—	30	—	25	
133 MHz < Fo	—	45	—	40	—	—	
Output Level (CMOS)							V
Output High (Logic "1")	90%VDD	—	90%VDD	—	90%VDD	—	
Output Low (Logic "0")	—	10%VDD	—	10%VDD	—	10%VDD	
Transition Time: Rise/Fall Time+							nSec
13.7 kHz ≤ Fo < 70 KHz	—	50	—	50	—	50	
0.3125 MHz ≤ Fo < 100 MHz	—	5	—	5	—	5	
100 MHz ≤ Fo	—	3	—	3	—	3	
Star Time	—	5	—	5	—	5	nSec
Output Drive Capability (CL)	—	15	—	15	—	15	pF
Tri-State (Input to Pin 1) Enable (High voltage or fcaing)	0.7VDD	—	0.7VDD	—	0.7VDD	—	V
Disable (Low voltage or GND)	—	0.3VDD	—	0.3VDD	—	0.3VDD	
Period Jitter (Pk-Pk)	—	40	—	40	—	0.54	pSec
Rms Phase Jitter (Integrated 12 kHz-20 MHz)	—	1	—	1	—	1	pSec
Standby Current	—	10	—	10	—	10	uA
Aging (@ 25°C 1st year)	—	±3	—	±3	—	±3	ppm
Storage Temp. Range	-55	125	-55	125	-55	125	°C

Outline Drawing



Frequency Stability Vs. Temperature Range

Temp.(°C)	Ppm	±20	±25	±30	±50	±100
-10 ~ +60	○	○	○	○	○	○
-20 ~ +70	△	○	○	○	○	○
-40 ~ +85	X	△	○	○	○	○
-40 ~ +105	X	X	X	△	○	○
-40 ~ +125	X	X	X	X	○	○

○: Available △: Conditional X: Not available

Ordering Information

Part Number Guide

RFW OSC	07 Package Size (mm)	33 Supply Voltage (V)	D Frequency Stability (ppm)	C Temp. Range (°C)	C Output Logic & Symmetry	1 Tri-State Function	- Dash	Freq. (Mhz)
	07:7.0*5.0 OP7:7.0*5.0 Programmable OSC	XX=x.xV	C:±20 D:±25 E:±30 G:±50 H:±100	I:-10~+60°C C:-20~+70°C L:-40~+85°C X:-40~+105°C Y:-40~+125°C	C:C-MOS 15pF 40/60 D:C-MOS 15pF 45/55	1:Fixed-Freq. with Tri-State 2:NC		XX.XXXXXX

Example RFW0733GCC1-125.000000MHz

Crystal Oscillator, RoHS Compliant, 7.0*5.0mm; Voltage=3.3V; Freq. Stability: +/-50ppm; Operating Temp. Range: -20~70°C; C-MOS Output; With Tri-state; Freq. 125.000000MHz.

**Not all combinations of options are available.