

Excequal

Clock Oscillator

CO32

1.544MHz ~ 50.000MHz HCMOS/TTL 15pF or 10TTL

MECHANICAL DIMENSIONS	ELECTRICAL SPECIFICATION																																													
<p>CONNECTION #1 N.C or E/D #2 GND #3 OUTPUT #4 Vcc</p> <p>Recommended soldering pattern</p>	Frequency range 1.544MHz to 50.000MHz All combination of Frequency range Vs. Package type might not be available ,please contact factory																																													
	Frequency Stability vs. Temperature vs. Aging ± 10 ppm to ±50ppm ±3.0 ppm max/ year																																													
	Temperature Range Operating Storage See Table 2 -55°C to 105°C																																													
	Supply Voltage 3.3V ± 5% 5.0V ± 5%																																													
	Input Current 3.3 V , 5V 1.544MHz ~ 10mA max 77.760MHz ~ 60mA max																																													
	Output characteristics HCMOS / TTL <table border="1"> <thead> <tr> <th></th> <th>HCMOS</th> <th>TTL</th> </tr> </thead> <tbody> <tr> <td>Logic "1"</td> <td>90% Vdd min</td> <td>2.4V min</td> </tr> <tr> <td>Logic "0"</td> <td>10% Vdd max</td> <td>0.4V min</td> </tr> <tr> <td>Load</td> <td>15pF</td> <td>10TTL</td> </tr> <tr> <td>Duty Cycle</td> <td>40/60</td> <td>40/60</td> </tr> <tr> <td>Rise & Fall</td> <td>10nS max</td> <td>10nS max</td> </tr> </tbody> </table>		HCMOS	TTL	Logic "1"	90% Vdd min	2.4V min	Logic "0"	10% Vdd max	0.4V min	Load	15pF	10TTL	Duty Cycle	40/60	40/60	Rise & Fall	10nS max	10nS max																											
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	Pulling Range ±50ppm / ±100 / ±150 ppm min																																													
	Control Range 1.65V ± 1.5V (Vdd : 3.3V) 2.5V ± 2.5V (Vdd : 5.0V)																																													
OUTPUT WAVEFORM	ENVIROMENTAL & MECHANICAL SPECIFICATION																																													
<p>DUTY(%) = $\frac{T_a}{T_a + T_b} \times 100$</p>	<table border="1"> <thead> <tr> <th>Shock</th> <td>MIL-STD-883C, Method 2002, Condition B</td> </tr> <tr> <th>Vibration</th> <td>MIL-STD-883C, Method 2007, Condition A</td> </tr> <tr> <th>Solderability</th> <td>MIL-STD-883C, Method 2003</td> </tr> <tr> <th>Seal integrity</th> <td>MIL-STD-883C, Method 1014, Condition C & A2</td> </tr> <tr> <th>Marking</th> <td>MIL-STD-202F, Method 215</td> </tr> </thead></table>				Shock	MIL-STD-883C, Method 2002, Condition B	Vibration	MIL-STD-883C, Method 2007, Condition A	Solderability	MIL-STD-883C, Method 2003	Seal integrity	MIL-STD-883C, Method 1014, Condition C & A2	Marking	MIL-STD-202F, Method 215																																
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