

MECHANICAL DIMENSIONS	ELECTRICAL SPECIFICATION																																																	
<p>OPTION</p> <p>PIN CONNECTION</p> <p>#1 N.C #2 GND #3 OUTPUT #4 Vcc</p> <p>Recommended Soldering Pattern</p>	Frequency range 10.000MHz to 50.000MHz Contact us if need high frequency																																																	
	Frequency Stability vs. Temperature vs. Supply Voltage vs. Load vs. Aging		± 0.5 ppm to ± 5.0 ppm $\pm 0.1 / \pm 0.2$ ppm max / $V_{dd} \pm 5\%$ ± 0.2 ppm max / $15\text{pF} \pm 10\%$ ± 1.0 ppm max/ year																																															
	Temperature Range Operating Storage		See Table 2 -55°C to 125°C																																															
	Supply Voltage		$3.3\text{V} \pm 5\%$ $5.0\text{V} \pm 5\%$																																															
	Input Current Clipped sinewave		<table border="1"> <tr> <td>10.00MHz</td> <td>~</td> <td>50.000MHz</td> </tr> <tr> <td>2.0mA max</td> <td>~</td> <td>10mA max</td> </tr> </table>		10.00MHz	~	50.000MHz	2.0mA max	~	10mA max																																								
10.00MHz	~	50.000MHz																																																
2.0mA max	~	10mA max																																																
	Output characteristics		<table border="1"> <tr> <td colspan="4">Clipped sinewave</td> </tr> <tr> <td>Level</td> <td>3.3V</td> <td>0.8Vp-p min</td> <td></td> </tr> <tr> <td></td> <td>5.0V</td> <td>1.0Vp-p min</td> <td></td> </tr> <tr> <td>Load</td> <td colspan="3">10kΩ//10pF</td> </tr> </table>		Clipped sinewave				Level	3.3V	0.8Vp-p min			5.0V	1.0Vp-p min		Load	10k Ω //10pF																																
Clipped sinewave																																																		
Level	3.3V	0.8Vp-p min																																																
	5.0V	1.0Vp-p min																																																
Load	10k Ω //10pF																																																	
	Phase Noise (typical) 20MHz offset		<table border="1"> <tr> <td>-80 dBc / Hz @ 10Hz</td> </tr> <tr> <td>-120 dBc / Hz @ 100Hz</td> </tr> <tr> <td>-135 dBc / Hz @ 1KHz</td> </tr> <tr> <td>-140 dBc / Hz @ 10KHz</td> </tr> <tr> <td>-145 dBc / Hz @ 100KHz</td> </tr> </table>		-80 dBc / Hz @ 10Hz	-120 dBc / Hz @ 100Hz	-135 dBc / Hz @ 1KHz	-140 dBc / Hz @ 10KHz	-145 dBc / Hz @ 100KHz																																									
-80 dBc / Hz @ 10Hz																																																		
-120 dBc / Hz @ 100Hz																																																		
-135 dBc / Hz @ 1KHz																																																		
-140 dBc / Hz @ 10KHz																																																		
-145 dBc / Hz @ 100KHz																																																		
	Frequency Adjustment		± 3 ppm min by internal trimmer (OPTION)																																															
OUTPUT WAVEFORM	ENVIROMENTAL & MECHANICAL SPECIFICATION																																																	
	Shock Vibration Solderability Seal integrity Marking		MIL-STD-883C, Method 2002, Condition B MIL-STD-883C, Method 2007, Condition A MIL-STD-883C, Method 2003 MIL-STD-883C, Method 1014, Condition C & A2 MIL-STD-202F, Method 215																																															
TEST CIRCUIT	TABLE1		TABLE2																																															
<p>CL: 10kohm//10pF</p>	<table border="1"> <thead> <tr> <th>Symbol</th> <th>Stability</th> </tr> </thead> <tbody> <tr><td>05</td><td>± 0.5ppm</td></tr> <tr><td>10</td><td>± 1.0ppm</td></tr> <tr><td>15</td><td>± 1.5ppm</td></tr> <tr><td>20</td><td>± 2.0ppm</td></tr> <tr><td>25</td><td>± 2.5ppm</td></tr> <tr><td>30</td><td>± 3.0ppm</td></tr> <tr><td>35</td><td>± 3.5ppm</td></tr> <tr><td>50</td><td>± 5.0ppm</td></tr> </tbody> </table>		Symbol	Stability	05	± 0.5 ppm	10	± 1.0 ppm	15	± 1.5 ppm	20	± 2.0 ppm	25	± 2.5 ppm	30	± 3.0 ppm	35	± 3.5 ppm	50	± 5.0 ppm	<table border="1"> <thead> <tr> <th>Symbol</th> <th>Temp.</th> <th>Symbol</th> <th>Temp.</th> </tr> </thead> <tbody> <tr><td>0</td><td>0$^{\circ}\text{C}$</td><td>A</td><td>50$^{\circ}\text{C}$</td></tr> <tr><td>1</td><td>-10$^{\circ}\text{C}$</td><td>B</td><td>60$^{\circ}\text{C}$</td></tr> <tr><td>2</td><td>-20$^{\circ}\text{C}$</td><td>C</td><td>70$^{\circ}\text{C}$</td></tr> <tr><td>3</td><td>-30$^{\circ}\text{C}$</td><td>D</td><td>75$^{\circ}\text{C}$</td></tr> <tr><td>4</td><td>-40$^{\circ}\text{C}$</td><td>E</td><td>80$^{\circ}\text{C}$</td></tr> <tr><td></td><td></td><td>F</td><td>85$^{\circ}\text{C}$</td></tr> </tbody> </table>		Symbol	Temp.	Symbol	Temp.	0	0 $^{\circ}\text{C}$	A	50 $^{\circ}\text{C}$	1	-10 $^{\circ}\text{C}$	B	60 $^{\circ}\text{C}$	2	-20 $^{\circ}\text{C}$	C	70 $^{\circ}\text{C}$	3	-30 $^{\circ}\text{C}$	D	75 $^{\circ}\text{C}$	4	-40 $^{\circ}\text{C}$	E	80 $^{\circ}\text{C}$			F	85 $^{\circ}\text{C}$
Symbol	Stability																																																	
05	± 0.5 ppm																																																	
10	± 1.0 ppm																																																	
15	± 1.5 ppm																																																	
20	± 2.0 ppm																																																	
25	± 2.5 ppm																																																	
30	± 3.0 ppm																																																	
35	± 3.5 ppm																																																	
50	± 5.0 ppm																																																	
Symbol	Temp.	Symbol	Temp.																																															
0	0 $^{\circ}\text{C}$	A	50 $^{\circ}\text{C}$																																															
1	-10 $^{\circ}\text{C}$	B	60 $^{\circ}\text{C}$																																															
2	-20 $^{\circ}\text{C}$	C	70 $^{\circ}\text{C}$																																															
3	-30 $^{\circ}\text{C}$	D	75 $^{\circ}\text{C}$																																															
4	-40 $^{\circ}\text{C}$	E	80 $^{\circ}\text{C}$																																															
		F	85 $^{\circ}\text{C}$																																															