

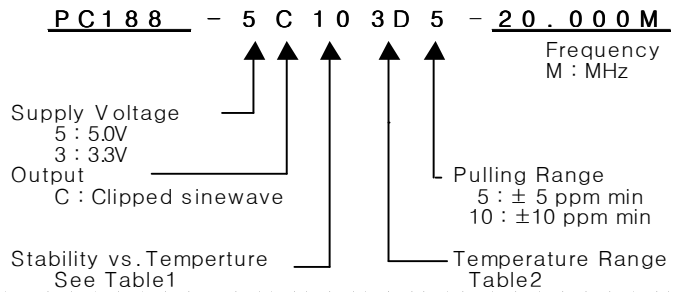
VCTCXO

PC188 Series

Clipped sinewave

14PIN DIP PACKAGE

* PART NUMBERING GUIDE



MECHANICAL DIMENSIONS	ELECTRICAL SPECIFICATION			
<p>PIN CONNECTION # 1 V.C # 2 GND # 3 OUTPUT # 4 Supply Voltage</p>	Frequency range	6.000MHz to 190.000MHz		
	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	6.00MHz 2.0mA max	~	190.000MHz 30mA max
	Output characteristics	Level 3.3V 5.0V	Clipped sinewave 0.8Vp-p min 1.0Vp-p min	Load 10k Ω //10pF
	Phase Noise (typical) 20MHz offset	-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		
	Voltage Control Characteristics	Output Pulling Range $(\Delta F / \Delta V)$ ± 5.0 ppm or ± 10 ppm min $(\Delta F / \Delta V) > \pm 20$ ppm is available, please contact us Control Voltage Range $1.65\text{V} \pm 1.5\text{V}$ ($V_{dd} : 3.3\text{V}$), $2.5\text{V} \pm 2.0\text{V}$ ($V_{dd} : 5.0\text{V}$)		
	ENVIROMENTAL & MECHANICAL SPECIFICATION			
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			
TABLE1		TABLE2		
Symbol	Stability	Symbol	Temp.	
05	± 0.5 ppm	0	0°C	
10	± 1.0 ppm	A	50°C	
15	± 1.5 ppm	B	60°C	
20	± 2.0 ppm	C	70°C	
25	± 2.5 ppm	D	75°C	
30	± 3.0 ppm	E	80°C	
35	± 3.5 ppm	F	85°C	
50	± 5.0 ppm			
TEST CIRCUIT				
<p>CL: 10kohm//10pF</p> <p>V.C</p> <p>V</p> <p>A</p> <p>Frequency Counter</p> <p>Oscilloscope</p> <p>CL(Load)</p>				