

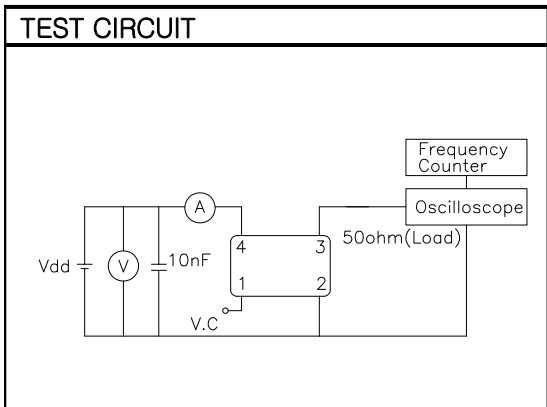
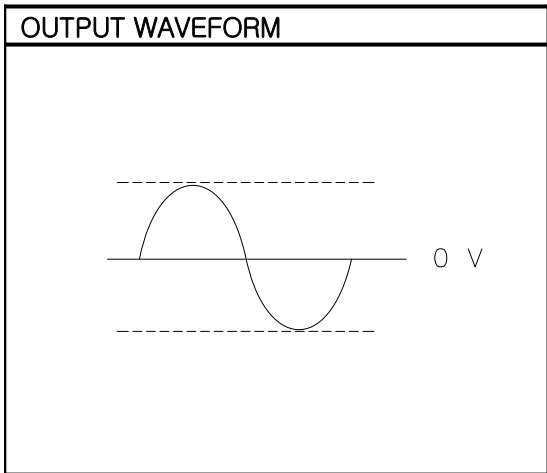
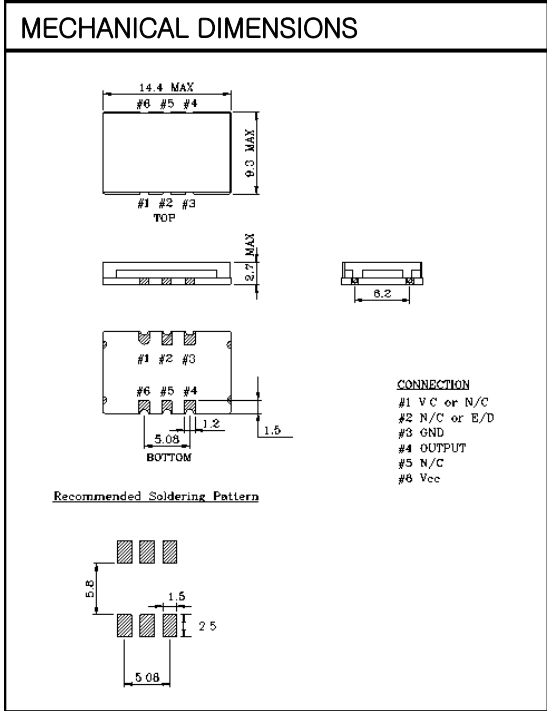
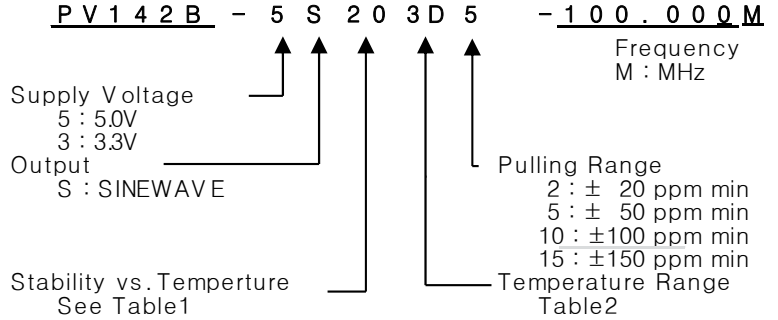
VCXO

PV142B Series

Sinewave

6PAD SMD PACKAGE

* PART NUMBERING GUIDE



ELECTRICAL SPECIFICATION

Frequency range	1.000MHz to 200.000MHz		
Frequency Stability vs. Temperature vs. Aging	± 10 ppm to ± 50 ppm ± 2.0 ppm max/ year		
Temperature Range Operating Storage	See Table 2 -55°C to 125°C		
Supply Voltage	3.3V \pm 5% 5.0V \pm 5%		
Input Current		3.3V(max)	5.0V(max)
	$f_o \leq 25.000$ MHz	10mA	15mA
	$f_o \leq 50.000$ MHz	25mA	30mA
	$f_o \leq 80.000$ MHz	30mA	50mA
	$f_o \leq 125.000$ MHz	35mA	60mA
	$f_o \leq 200.000$ MHz	40mA	70mA
Output characteristics (Load: 50 Ω)	Supply Voltage	Output Level	
	3.3V	0 dBm min	
	5.0V	+5 dBm typ	
Pull Characteristics			
Pulling Range	± 20 ppm / ± 50 ppm / ± 100 / ± 150 ppm min		
Control Range	1.65V \pm 1.5V (V _{dd} : 3.3V) 2.5V \pm 2.0V/2.5V (V _{dd} : 5.0V)		
Phase noise @100MHz	-140dBc/Hz @1KHz offset Noise floor -165dBc		

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

Symbol	Stability
10	± 10 ppm
15	± 15 ppm
20	± 20 ppm
30	± 30 ppm
50	± 50 ppm

TABLE2

Symbol	Temp.	Symbol	Temp.
0	0°C	A	50°C
1	-10°C	B	60°C
2	-20°C	C	70°C
3	-30°C	D	75°C
4	-40°C	E	80°C
5	-50°C	F	85°C
6	-55°C	G	105°C
		H	125°C