

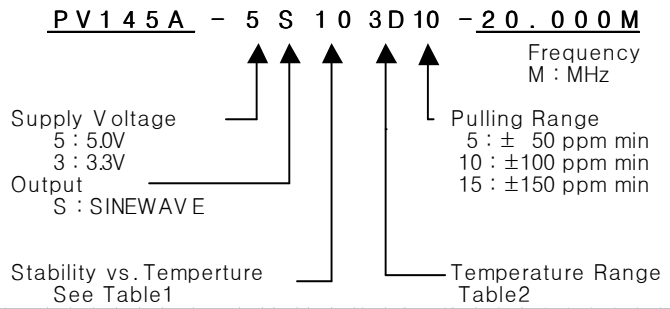
VCXO

PV145A Series

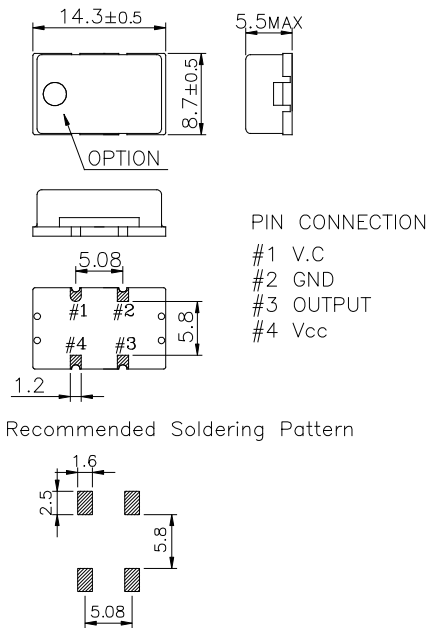
Sinewave

4PAD SMD PACKAGE

* PART NUMBERING GUIDE



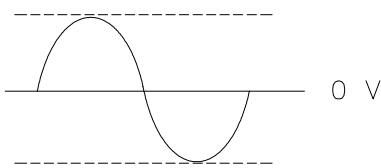
MECHANICAL DIMENSIONS



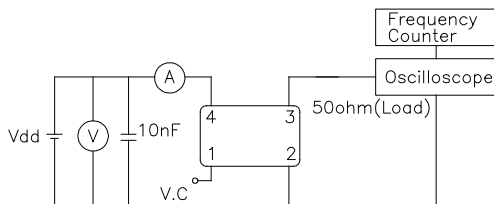
ELECTRICAL SPECIFICATION

Frequency range	10.000MHz 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 ± 50 ppm ± 3.0 ppm max/ year																			
Temperature Range Operating Storage	See Table 2 -55 $^{\circ}$ C to 105 $^{\circ}$ C																			
Supply Voltage	3.3V \pm 5% 5.0V \pm 5%																			
Input Current		<table border="1"> <tr> <td></td> <td>3.3V</td> <td>5.0V</td> </tr> <tr> <td>$f_o \leq 25.000$MHz</td> <td>15mA</td> <td>20mA</td> </tr> <tr> <td>$f_o \leq 50.000$MHz</td> <td>25mA</td> <td>30mA</td> </tr> <tr> <td>$f_o \leq 80.000$MHz</td> <td>35mA</td> <td>50mA</td> </tr> <tr> <td>$f_o \leq 125.000$MHz</td> <td>40mA</td> <td>60mA</td> </tr> <tr> <td>$f_o \leq 190.000$MHz</td> <td>45mA</td> <td>70mA</td> </tr> </table>		3.3V	5.0V	$f_o \leq 25.000$ MHz	15mA	20mA	$f_o \leq 50.000$ MHz	25mA	30mA	$f_o \leq 80.000$ MHz	35mA	50mA	$f_o \leq 125.000$ MHz	40mA	60mA	$f_o \leq 190.000$ MHz	45mA	70mA
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Output characteristics	<p>Sinewave</p> <p>Level 3.3V 0 dBm typ 5.0V 10 dBm typ</p> <p>Load 50Ω</p>																			
Pull Characteristics																				
Pulling Range	± 50 ppm / ± 100 / ± 150 ppm min Wide pulling range : contact company																			
Control Range	1.65V \pm 1.5V (Vdd : 3.3V) 2.5V \pm 2.5V (Vdd : 5.0V)																			

OUTPUT WAVEFORM



TEST CIRCUIT



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
100	± 100 ppm

TABLE2

Symbol	Temp.	Symbol	Temp.
0	0 $^{\circ}$ C	A	50 $^{\circ}$ C
1	-10 $^{\circ}$ C	B	60 $^{\circ}$ C
2	-20 $^{\circ}$ C	C	70 $^{\circ}$ C
3	-30 $^{\circ}$ C	D	75 $^{\circ}$ C
4	-40 $^{\circ}$ C	E	80 $^{\circ}$ C
		F	85 $^{\circ}$ C