

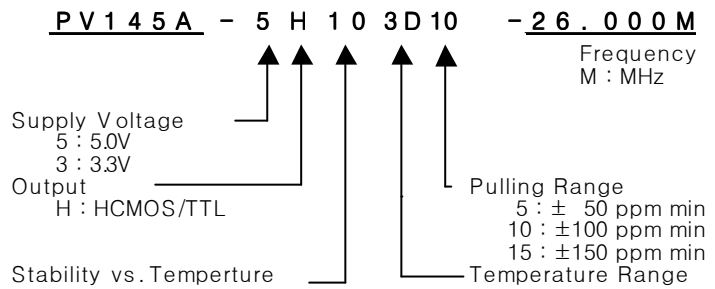
VCXO

PV145A Series

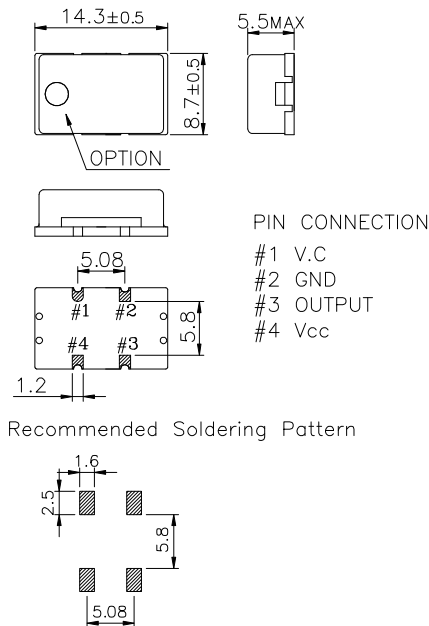
HCMOS/TTL

4PAD SMD PACKAGE

* PART NUMBERING GUIDE



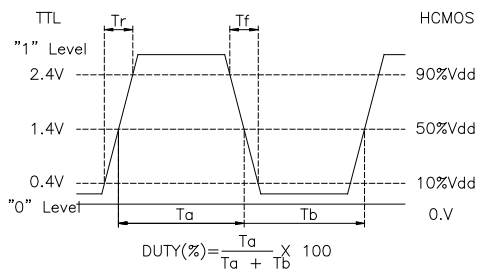
MECHANICAL DIMENSIONS



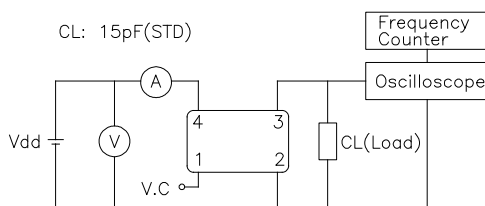
ELECTRICAL SPECIFICATION

Frequency range	1.000KHz to 800.000MHz 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	1.000KHz ~ 40.000MHz ~ 800.000MHz 15mA max ~ 30mA max ~ 100mA 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 "1"</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 "1"	10% Vdd max	0.4V min	Load	15pF	10TTL	Duty Cycle	40/60	40/60	Rise & Fall	10nS max	10nS max
	HCMOS	TTL																	
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Pull Characteristics																			
Pulling Range	±50ppm / ±100 / ±150 ppm min Wide pulling range : contact company																		
Control Range	1.65V ± 1.5V (Vdd : 3.3V) 2.5V ± 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	± 10ppm
15	± 15ppm
20	± 20ppm
30	± 30ppm
50	± 50ppm
100	±100ppm

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
		F	85°C