

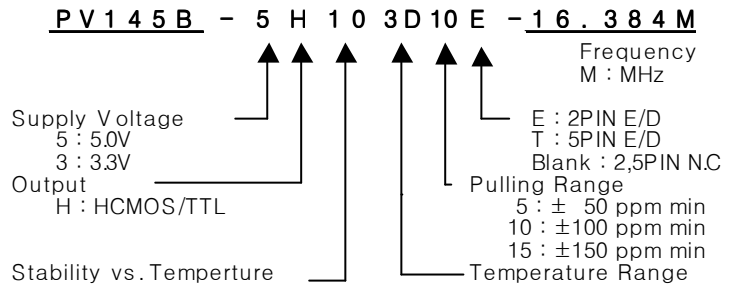
# VCXO

## PV145B Series

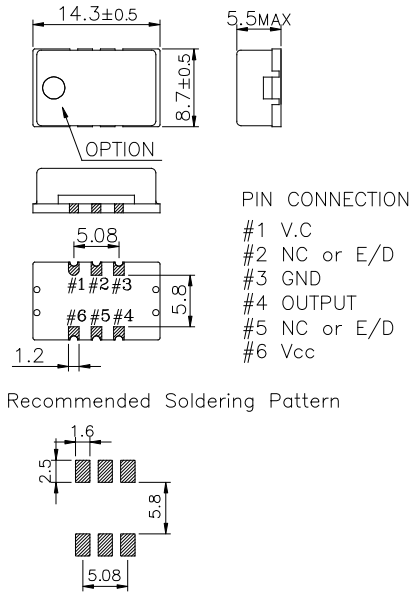
### HCMOS/TTL

### 6PAD SMD PACKAGE

### \* PART NUMBERING GUIDE



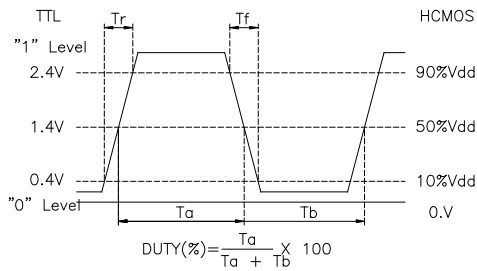
### MECHANICAL DIMENSIONS



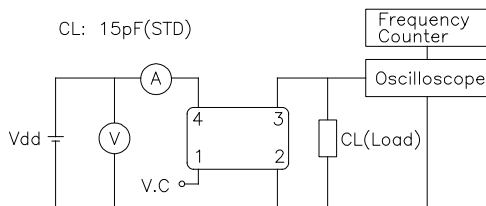
### ELECTRICAL SPECIFICATION

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 &amp; 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	
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Duty Cycle	40/60	40/60																		
Rise & Fall	10nS max	10nS max																		
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