

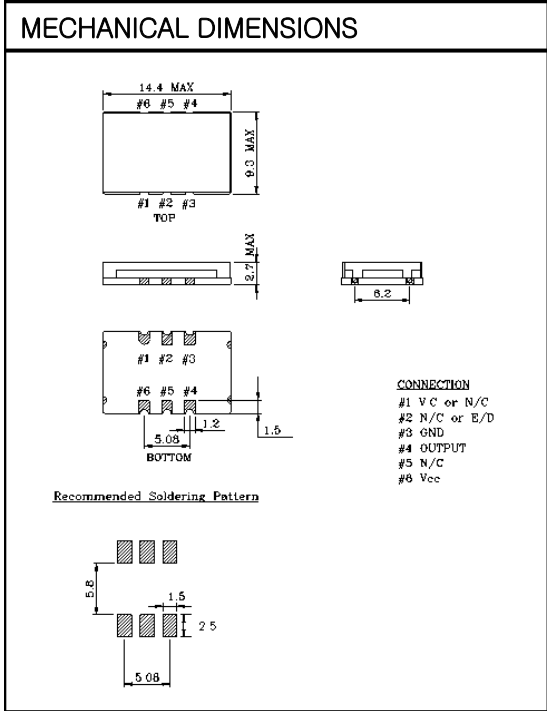
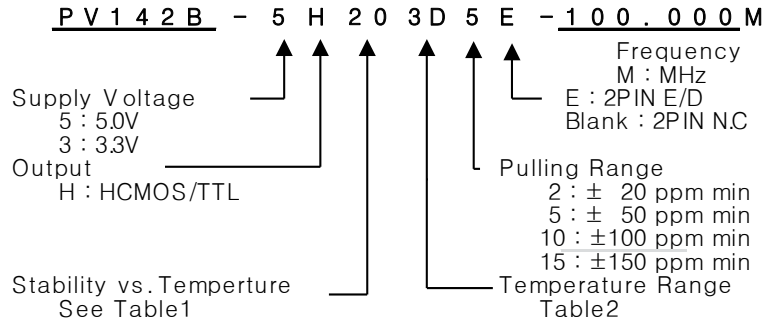
# VCXO

## PV142B Series

### HCMOS/TTL

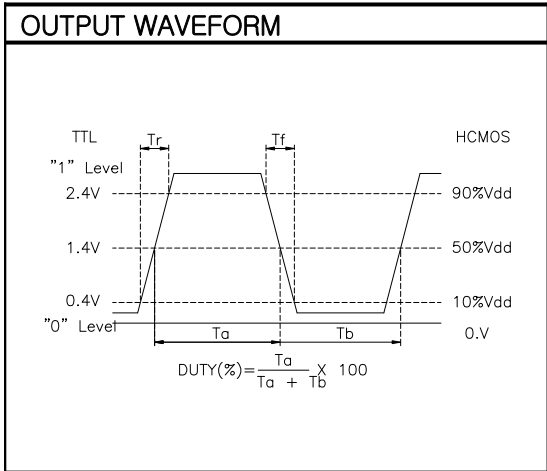
### 6PAD SMD PACKAGE

#### \* PART NUMBERING GUIDE

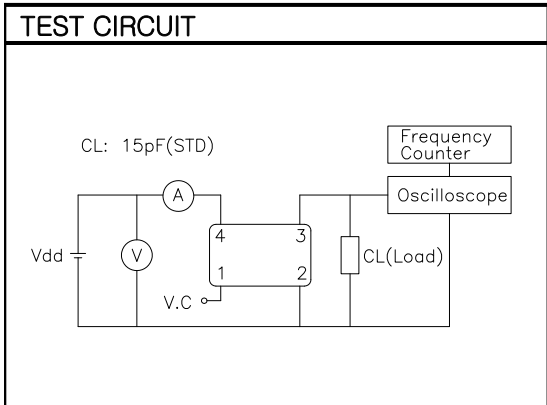


#### ELECTRICAL SPECIFICATION

Frequency range	1.000MHz to 200.000MHz	
Frequency Stability vs. Temperature vs. Aging	± 10 ppm to ±50ppm ±2.0 ppm max/ year	
Temperature Range Operating Storage	See Table 2 -55°C to 125°C	
Supply Voltage	3.3V ± 5% 5.0V ± 5%	
Input Current	1.000MHz ~ 40.000MHz ~ 200.000MHz	5mA max ~ 30mA max ~ 50A max
Output characteristics HCMOS / TTL	HCMOS Logic "1" 90% Vdd min Logic "1" 10% Vdd max Load 15pF Duty Cycle 40/60 Rise & Fall 10nS max	TTL 2.4V min 0.4V max 10TTL 40/60 10nS max



Pull Characteristics	
Pulling Range Control Range	±20ppm / ±50ppm / ±100 / ±150 ppm min 1.65V ± 1.5V ( Vdd : 3.3V ) 2.5V ± 2.0V/2.5V ( Vdd : 5.0V )
Phase noise @100MHz	-140dBc/Hz @1KHz offset Noise floor -165dBc



#### ENVIRONMENTAL & 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

#### 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