

**Series PV7**  
**SEAM SEALED OSCILLATOR 7.0X5.0MM SMD**

**CV7 Type**  
**7.0 x 5.0 mm SMD PECL/LVDS Voltage**  
**Controlled Crystal Oscillator**

**FEATURE**

- Typical 7.0 x 5.0 x1.6 mm 6pads ceramic SMD package.
- Very low jitter performance:typical 0.3pS RMS from 12k~20MHz.
- Wide frequency control range.
- Complementary Output.
- Tri-state enable/disable

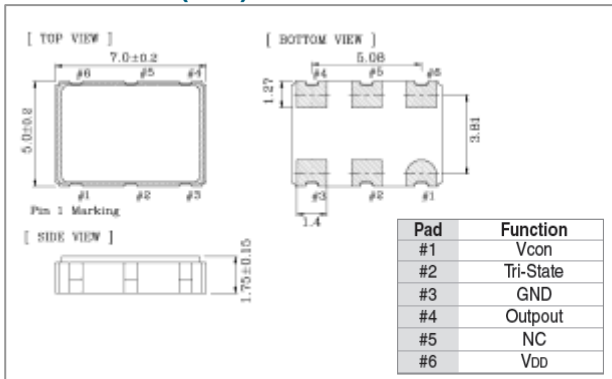


**TYPICAL APPLICATION**

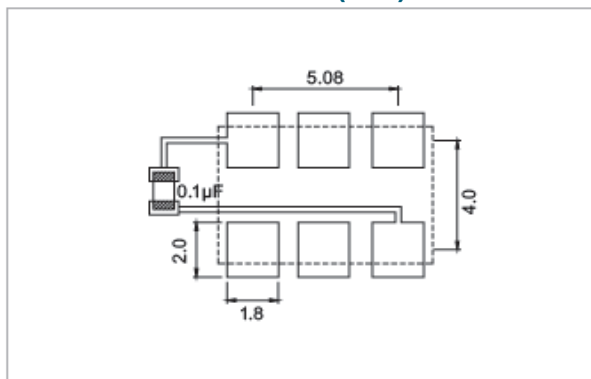
- Set-top Box,HDTV
- Wimax/WLAN
- xDSL/ VoIP, Cable modem

RoHS Compliant Standard

**DIMENSION (mm)**



**SOLDER PAD LAYOUT (mm)**



**ELECTRICAL SPECIFICATION**

Parameter	PECL				LVDS				Unit
	3.3V		2.5V		3.3V		2.5V		
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD) 5%	3.135	3.465	2.375	2.625	3.135	3.465	2.375	2.625	V
Frequency Range	1.5	200	65	200	1.5	200	65	200	MHz
Standard Frequency	77.76,106.25,122.88,125,155.52,156.25,200								
Absolute Pulling Range (APR)	±50	-	±50	-	±50	-	±50	-	ppm
Control Voltage Range	0.3	3.0	0	2.5	0.3	3.0	0	2.5	V
Supply Current	1.5MHz ≤ F0 < 65 MHz		-		-		-		
	65MHz ≤ F0 < 200 MHz		-		-		-		
Output Level	Output High (Logic "1")		2.275		-		1.475		
	Output Low (Logic "0")		-		1.68		-		
Transition Time : Rise/ Fall Time*	-		1.0		-		1.0		nSec
Start Time	-		3		-		3		mSec Tri-
State(Input to Pin 2 )	Enable(High voltage or floating)		0.7VDD		-		0.7VDD		
	Disable(Low voltage or GND)		-		0.3VDD		-		
Linearity	-		10		-		10		%
Modulation Bandwidth(BW)	25		-		25		-		KHz
Input Impedance	50		-		50		-		KΩ
RMS Phase Jitter(Integrated 12KHz~20MHz)	F0< 100 MHz		-		1		-		
	100 MHz ≤ F0 <125 MHz		-		0.7		-		
	125 MHz ≤ F0 <150 MHz		-		0.5		-		
	150 MHz ≤ F0		-		0.3		-		
Phase Noise 156.25MHz	100Hz		-		-85		-		
	1 KHz		-		-113		-		
	10 KHz		-		-135		-		
Aging ( @25°C 1st year)	-		±3		-		±3		ppm
Storage Temp. Range	-55		125		-55		125		°C

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position

+ Transition times are measured between 20% and 80% of VDD,

Packing:Tape & Reel 1000/3000pcs per Reel..

**FREQ. STABILITY vs.TEMP.RANGE**

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Temp. (°C) \ ppm	±25	±50
-10~+60	△	○
-20~+70	△	○
-40~+85	X	○

\* O: Available    △: Conditional    X: Not available  
 \*Inclusive of calibration @ 25°C, operating temperature range, input voltage variation, load variation, aging (1<sup>st</sup> year), shock, and vibration

Specifications subject to change without notice