

Series PV5
SEAM SEALED OSCILLATOR 5.0X3.2MM SMD

PV5 Type
5.0 x 3.2 mm SMD PECL/LVDS
Voltage Controlled Crystal Oscillator



FEATURE

- Typical 5.0 x 3.2 x 1.2 mm 6pads ceramic SMD package.
- Tight symmetry(45 to 55%) available
- Tri-state enable/disable

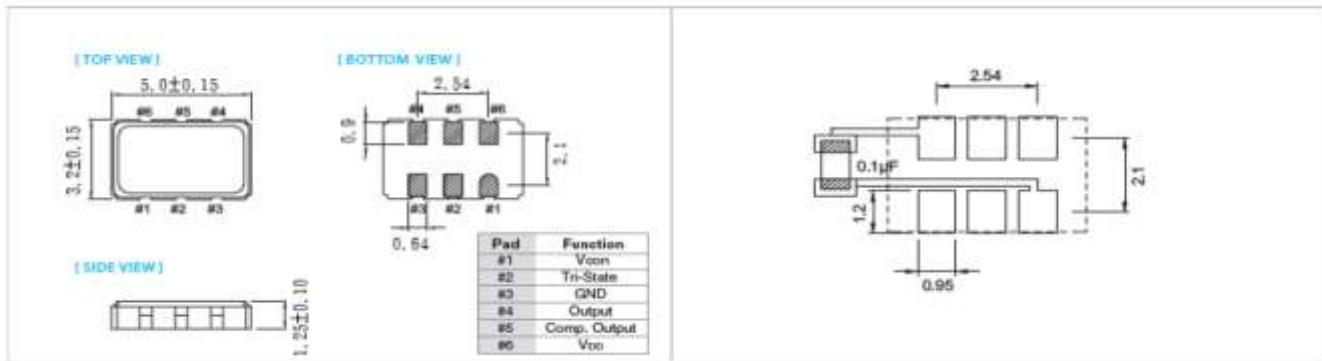
TYPICAL APPLICATION

- 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		3.3V		
	Min.	Max.	Min.	Max.	
Supply Voltage Variation (VDD) 5%	3.135	3.465	3.135	3.465	V
Frequency Range	60	175	60	175	MHz
Standard Frequency	153.6,155.52,156.25				
Absolute Pulling Range (APR)	±50	-	±50	-	ppm
Control Voltage Range	0.3	3.0	0.3	3.0	V
Supply Current 60MHz ≤ F ₀ ≤ 175 MHz	100		75		mA
Output Level	2.275		1.6		V
Transition Time : Rise/ Fall Time	-	1.68	0.9	-	nSec
Start Time	-	1.0	-	1.0	mSec
Tri-State(Input to Pin 2)	0.7V _{DD}		0.7V _{DD}		V
Enable(High voltage or floating)	-	-	-	-	
Disable(Low voltage or GND)	-	0.3V _{DD}	-	0.3V _{DD}	
Linearity	-	10	-	10	%
Modulation Bandwidth (BW)	20	-	20	-	KHz
Input Impedance	5	-	5	-	MΩ
RMS Phase Jitter	F ₀ < 100MHz		F ₀ < 100MHz		pSec
	-	1.0	-	1.0	
	100 MHz ≤ F ₀ < 125 MHz	0.7	-	0.7	
	125 MHz ≤ F ₀ < 150 MHz	0.5	-	0.5	
	150 MHz ≤ F ₀ ≤ 175MHz	0.3	-	0.3	
Phase Noise @122.88 MHz	100 Hz	-85	-	-85	dBc/Hz
	1 KHz	-115	-	-115	
	10 KHz	-130	-	-130	
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

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 (1st year), shock, and vibration

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Specifications subject to change without notice