

# 7 x 5 x 1.8mm SMD VCXO



- LVPECL Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.2ps typical
- Pull range from ±30ppm to ±150ppm

## **DESCRIPTION**

GPA576 VCXOs are packaged in a 6 pad 7mm x 5mm SMD package. Typical phase jitter for GPA series VCXOs is 0.2 ps. Output is LVPECL. Applications include phase lock loop, SONET/ATM, set-top boxes, MPEG, audio/video modulation, video game consoles and HDTV.

#### **SPECIFICATION**

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	Frequency Range:	60.0MHz to 240.0MHz
	Supply Voltage:	3.3 VDC ±5%
	Output Logic:	LVPECL
	RMS Period Jitter	
	60.0MHz ~ 120MHz:	2.5ps typical
	120MHz ~ 240MHz:	4.7ps typical
	Peak to Peak Jitter	
	60.0MHz ~ 120MHz:	17.5ps typical
	120MHz ~ 240MHz:	24.5ps typical
	Phase Jitter:	0.2ps typical
	Initial Frequency Accuracy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC
	Output Voltage HIGH (1):	Vdd-1.025V minimum
		Vdd-0.880V maximum
	Output Voltage LOW (0):	Vdd-1.810V minimum
		Vdd-1.620V maximum
		$(RL=50\Omega \text{ to Vdd-2V})$
	Pulling Range:	From ±30ppm to ±150ppm
	Control Voltage Range:	1.65 ±0.35 Volts
	Temperature Stability:	See table
	Output Load:	50 $\Omega$ into Vdd or Thevenin equiv.
	Rise/Fall Times:	0.5ns typ., 0.7ns max.
		20% Vdd to 80% Vdd
	Duty Cycle:	50% ±5%
		(Measured at Vdd-1.3V)
	Start-up Time:	10ms maximum, 5ms typical
	Current Consumption:	75mA maximum at 212.5MHz
		80mA maximum at 622.08MHz
	Static Discharge Protection:	2kV maximum
	Storage Temperature:	-55° to +150°C
	Ageing:	±2ppm per year maximum
	Enable/Disable:	See table
	RoHS Status:	Fully compliant

# FREQUENCY STABILITY

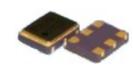
Stability Code	Stability ±ppm	Temp. Range
Α	25	0°∼+70°C
В	50	0°∼+70°C
С	100	0°∼+70°C
D	25	-40°∼+85°C
E	50	-40°~+85°C
F	100	-40°~+85°C
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If non-standard frequency stability is required Use '1' followed by stability, i.e. 120 for ±20ppm

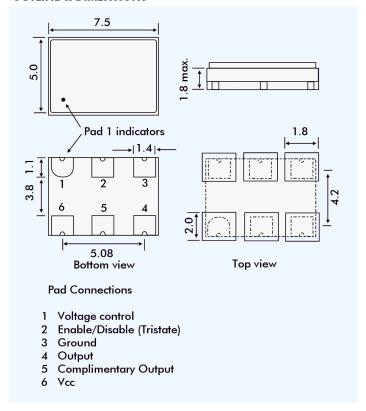
## **ENABLE/DISABLE FUNCTION**

Tristate Pad Status	Output Status
Not connected	LVPECL and Complimentary LVPECL enabled
Below 0.3Vdd	Both outputs are disabled (high impedance)
(Ref. to ground)	
Above 0.7Vdd	Both outputs are enabled
(Ref. to ground)	





## **OUTLINE & DIMENSIONS**



# PART NUMBERING

