

7 x 5 x 1.8mm SMD VCXO

- Frequency range 38MHz to 640MHz
- LVPECL Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.4ps typical
- Pull range from ±30ppm to ±150ppm

DESCRIPTION

GPF576 VCXOs are packaged in a 6 pad 7mm x 5mm SMD package. Typical phase jitter for GPF series VCXOs is 0.4 ps. Output is LVPECL. Applications include phase lock loop, SONET/ATM, set-top boxes, MPEG, audio/video modulation, video game consoles and HDTV.

SPECIFICATION

Frequency Range:	38.0MHz to 640.0MHz
Supply Voltage:	3.3 VDC ±5%
Output Logic:	LVPECL
RMS Period Jitter:	3.0ps typical
Peak to Peak Jitter:	20.0ps typical, 30.0ps maximum
Phase Jitter:	0.4ps typical, 5.0ps maximum
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 ($RL=50\Omega$ to Vdd-2V)
Pulling Range:	From ±30ppm to ±150ppm
Control Voltage Range:	1.65 ±0.35 Volts
Temperature Stability:	See table
Output Load:	50Ω 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

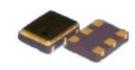
Stability Code	Stability ±ppm	Temp. Range
Α	25	0°∼+70°C
В	50	0°∼+70°C
С	100	0°∼+70°C
D	25	-40°~+85°C
E	50	-40°∼+85°C
F	100	-40°∼+85°C
If non stand	ard frequency stak	allity is required

If non-standard frequency stability is required Use 'I' followed by stability, i.e. 120 for ±20ppm

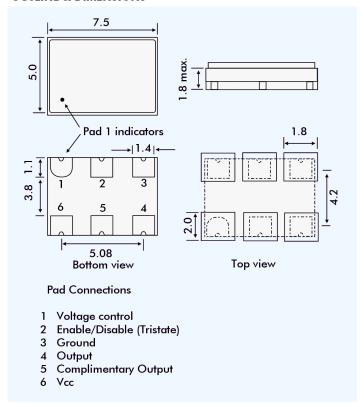
ENABLE/DISABLE FUNCTION

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





OUTLINE & DIMENSIONS



PART NUMBERING

