

- Frequency range 60MHz to 240MHz
- LVPECL Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.2ps typical
- Pull range from ±30ppm to ±150ppm

## DESCRIPTION

GPA62 VCXOs are packaged in a 6 pad 11.4 x 9.6mm 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

Frequency Range: Supply Voltage:	60.0MHz to 240.0MHz 3.3 VDC ±5%
Output Logic:	LVPECL
RMS Period Jitter 60.0MHz ~ 120MHz: 120MHz ~ 240MHz:	2.5ps typical 4.7ps typical
Peak to Peak Jitter 60.0MHz ~ 120MHz: 120MHz ~ 240MHz:	17.5ps typical 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=50Ω 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 or non-compliant

## FREQUENCY STABILITY

<b>Stability Code</b>	Stability ±ppm	Temp. Range
А	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-standard frequency stability is required Use '1' followed by stability, i.e. I20 for ±20ppm		

### **ENABLE/DISABLE FUNCTION**

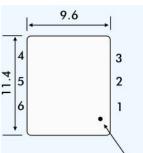
Tristate Pad Status	Output Status
	LVPECL and Complimentary LVPECL enabled Both outputs are disabled (high impedance)
Above 0.7Vdd (Ref. to ground)	Both outputs are enabled

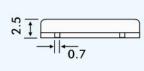
# 11.4 x 9.6 x 2.5mm SMD VCXO



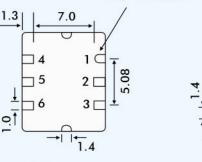


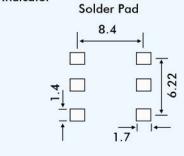
### **OUTLINE & DIMENSIONS**







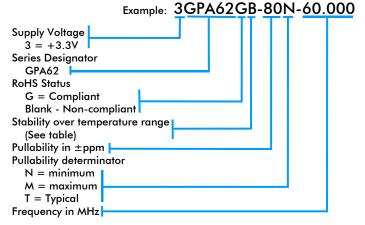




# **Pad Connections**

- 1 Voltage Control (rounded pad)
- 2 Enable/Disable (Tristate)
- 3 Ground
- 4 Output
- 5 Complimentary Output
- 6 Supply Voltage

# PART NUMBERING



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