

- Frequency range 60MHz to 240MHz
- LVDS Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.2ps typical
- Pull range from  $\pm 30\text{ppm}$  to  $\pm 150\text{ppm}$

### DESCRIPTION

GDA62 VCXOs are packaged in a 11.4 x 9.6mm SMD package. Typical phase jitter for GDA series VCXOs is 0.2 ps. Output is LVDS. Applications include phase lock loop, SONET/ATM, set-top boxes, MPEG, audio/video modulation, video game consoles and HDTV.

### SPECIFICATION

Frequency Range:	60.0MHz to 240.0MHz
Supply Voltage:	3.3 VDC $\pm 5\%$
Output Logic:	LVDS
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 $V_c = 1.65 \pm 0.2\text{VDC}$
Output Voltage HIGH (1):	1.4 Volts typical
Output Voltage LOW (0):	1.1 Volts typical
Pulling Range:	From $\pm 30\text{ppm}$ to $\pm 150\text{ppm}$
Control Voltage Range:	$1.65 \pm 1.35$ Volts
Temperature Stability:	See table
Output Load:	$50\Omega$ into Vdd or Thevenin equiv. (Terminating resistors required on all outputs)
Rise/Fall Times:	0.5ns typ., 0.7ns max. 20% Vdd to 80% Vdd
Duty Cycle:	50% $\pm 5\%$ (Measured at Vdd-1.25V)
Start-up Time:	10ms maximum, 5ms typical
Current Consumption:	55mA typical, 60mA maximum (for 202.50MHz)
Static Discharge Protection:	2kV maximum
Storage Temperature:	$-55^\circ$ to $+150^\circ\text{C}$
Ageing:	$\pm 2\text{ppm}$ per year maximum
Enable/Disable:	See table
RoHS Status:	Fully compliant or non-compliant

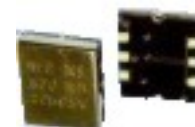
### FREQUENCY STABILITY

Stability Code	Stability $\pm\text{ppm}$	Temp. Range
A	25	$0^\circ \sim +70^\circ\text{C}$
B	50	$0^\circ \sim +70^\circ\text{C}$
C	100	$0^\circ \sim +70^\circ\text{C}$
D	25	$-40^\circ \sim +85^\circ\text{C}$
E	50	$-40^\circ \sim +85^\circ\text{C}$
F	100	$-40^\circ \sim +85^\circ\text{C}$

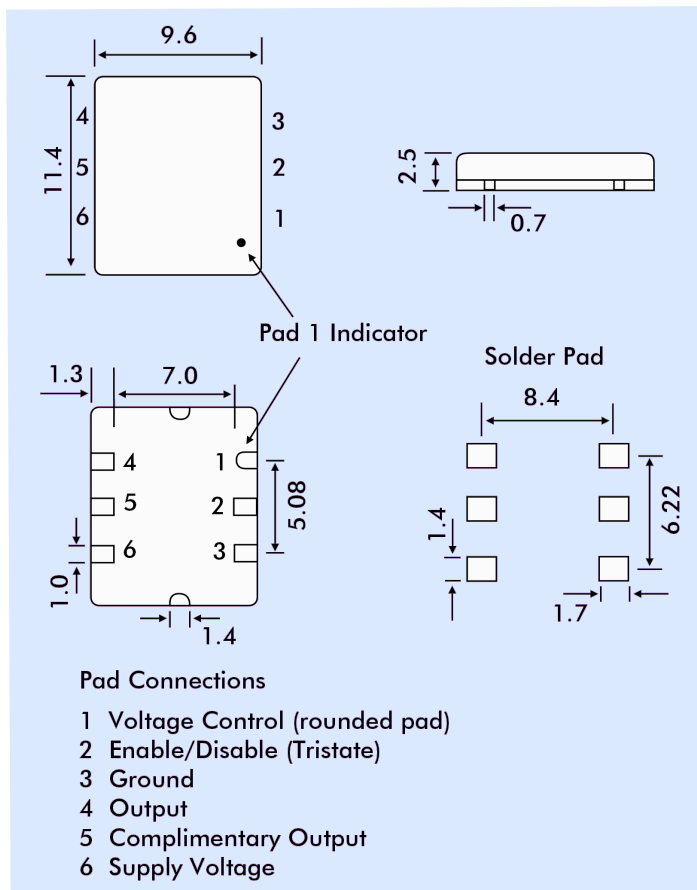
If non-standard frequency stability is required Use 'I' followed by stability, i.e. I20 for  $\pm 20\text{ppm}$

### ENABLE/DISABLE FUNCTION

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



### OUTLINE & DIMENSIONS



### PART NUMBERING

