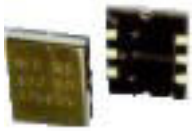
GPA64 LVPECL VCXO

11.4 x 9.6 x 4.7mm SMD VCXO

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

RoHS COMPLIANT 2002 / 95 /EC



DESCRIPTION

GPA64 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:	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=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

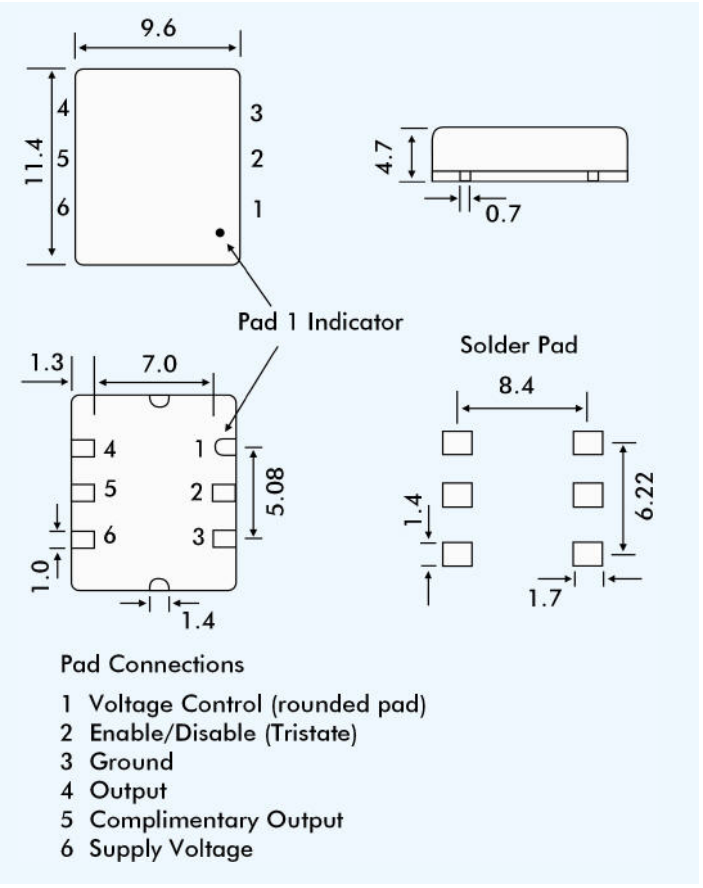
Stability Code	Stability ±ppm	Temp. Range
A	25	0°~+70°C
B	50	0°~+70°C
C	100	0°~+70°C
D	25	-40°~+85°C
E	50	-40°~+85°C
F	100	-40°~+85°C

If non-standard frequency stability is required
Use 'I' followed by stability, i.e. I20 for ±20ppm

ENABLE/DISABLE FUNCTION

Tristate Pad Status	Output Status
Not connected	LVPECL and Complimentary LVPECL 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



Pad Connections

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

PART NUMBERING

Example: 3GPA64GB-80N-60.000

Supply Voltage
3 = +3.3V
Series Designator
GPA64
RoHS Status
G = Compliant
Blank - Non-compliant
Stability over temperature range
(See table)
Pullability in ±ppm
Pullability determinator
N = minimum
M = maximum
T = Typical
Frequency in MHz

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