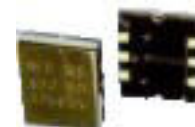


11.4 x 9.6 x 4.7mm 6 pad SMD VCXO

- Frequency range 750kHz to 800MHz
- LVDS Output
- Supply Voltage 3.3 VDC
- Phase jitter 2.35ps typical
- Pull range from $\pm 30\text{ppm}$ to $\pm 150\text{ppm}$



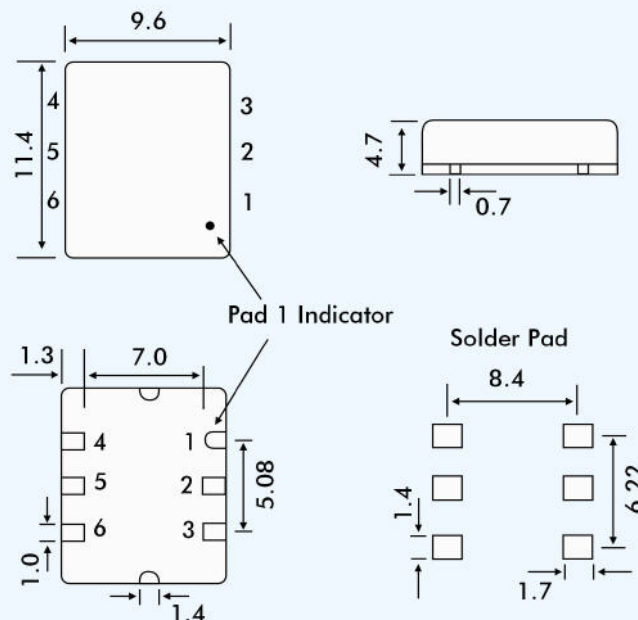
DESCRIPTION

GDW64 VCXOs are packaged in a 6 pad 11.4 x 9.6mm SMD package. Typical phase jitter for GDW series VCXOs is 2.35ps. 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:	750kHz to 800.0MHz
Supply Voltage:	3.3 VDC $\pm 5\%$
Output Logic:	LVDS
RMS Period Jitter:	4.3ps typical
Peak to Peak Jitter:	27.0ps typical
Phase Jitter:	2.35ps 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 ± 1.35 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:	$50\% \pm 5\%$ (Measured at Vdd-1.3V)
Start-up Time:	10ms maximum, 5ms typical
Current Consumption:	55mA typical, 60mA maximum (At 202.50MHz)
Static Discharge Protection:	2kV maximum
Storage Temperature:	-55° to $+150^\circ\text{C}$
Ageing:	$\pm 2\text{ppm}$ per year maximum
Enable/Disable:	See table
RoHS Status:	Fully compliant or non compliant

OUTLINE & DIMENSIONS



Pad Connections

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

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 Below 0.3Vdd (Ref. to ground)	LVDS and Complimentary LVDS enabled
Above 0.7Vdd (Ref. to ground)	Both outputs are disabled (high impedance)

PART NUMBERING

Example: 3GDW64G-B-80N-60.000

Supply Voltage	3 = +3.3V
Series Designator	GDW64
RoHS Status	G = RoHS compliant Blank = RoHS non-compliant
Stability over temperature range	(See table)
Pullability in $\pm\text{ppm}$	80 = 80ppm
Pullability determinant	N = minimum M = maximum T = Typical
Frequency in MHz	60.000