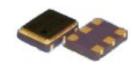


7 x 5 x 1.8mm SMD VCXO



- LVDS Output
- Supply Voltage 3.3 VDC
- Phase jitter 2.35ps typical
- Pull range from ±30ppm to ±150ppm





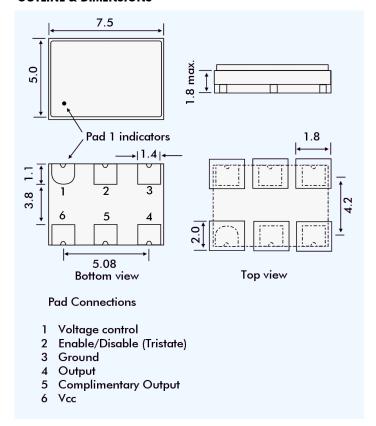
DESCRIPTION

GDW576 VCXOs are packaged in a 6 pad 7 x 5mm 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

SPECIFICATION	
Frequency Range:	750kHz to 800.0MHz
Supply Voltage:	3.3 VDC ±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 Vc= 1.65 ±0.2VDC
Output Voltage HIGH (1):	1.4 Volts typical
Output Voltage LOW (0):	1.1 Volts typical
Pulling Range:	From ± 30 ppm to ± 150 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% ±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°C
Ageing:	±2ppm per year maximum
Enable/Disable:	See table
RoHS Status:	Fully compliant

OUTLINE & DIMENSIONS



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

PART NUMBERING

