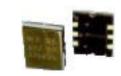


11.4 x 9.6 x 4.7mm SMD VCXO



2002 / 95 /EC



- Frequency range 38MHz to 640MHz
- LVDS Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.4ps typical
- Pull range from ±30ppm to ±150ppm

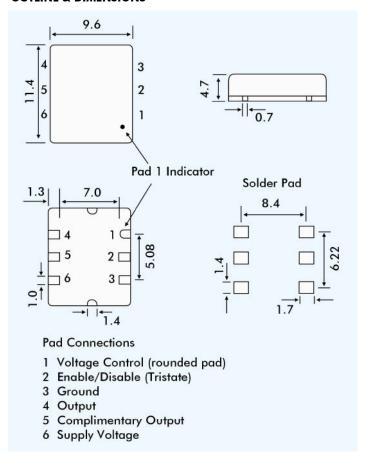
DESCRIPTION

GDF64 VCXOs are packaged in a 6 pad 11.4 x 9.6m SMD package. Typical phase jitter for GDF series VCXOs is 0.4 ps. 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:	38.0MHz to 640.0MHz
Supply Voltage:	3.3 VDC ±5%
Output Logic:	LVDS
RMS Period Jitter:	3.0ps typical
Peak to Peak Jitter:	20.0ps typical, 30.0ps maximum
Phase Jitter:	0.4ps typical, 5.0ps maximum
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 or non 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-stand	ard frequency stab	ility is required

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

Example: 3GDF64GB-80N-60.000 Supply Voltage 3 = +3.3VSeries Designator GDF64 **RoHS Status** G = Compliant Blank - Non-compliant Stability over temperature range (See table) Pullability in ±ppm Pullability determinator N = minimumM = maximumT = TypicalFrequency in MHz

PART NUMBERING