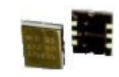


11.4 x 9.6 x 2.5mm SMD VCXO



2002 / 95 /EC



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

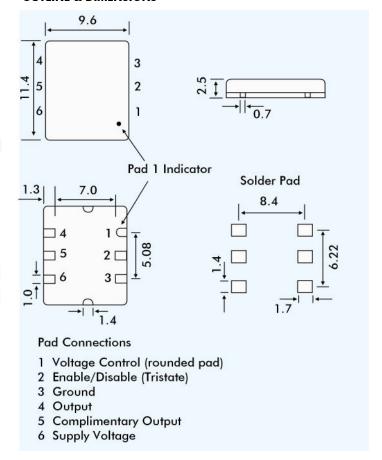
DESCRIPTION

GPF62 VCXOs are packaged in a 6 pad 11.4 x 9.6mm SMD package. Typical phase jitter for GPF series VCXOs is 0.4 ps. Output is LVPECL. 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:	LVPECL	
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):	Vdd-1.025V minimum	
	Vdd-0.880V maximum	
Output Voltage LOW (0):	Vdd-1.810V minimum	
	Vdd-1.620V maximum	
	(RL=50 Ω to Vdd-2V)	
Pulling Range:	From ±30ppm to ±150ppm	
Control Voltage Range:	1.65 ±0.35 Volts	
Temperature Stability:	See table	
Output Load:	50 Ω 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	

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 '1' 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	Both outputs are disabled (high impedance)
(Ref. to ground)	
Above 0.7Vdd	Both outputs are enabled
(Ref. to ground)	•

PART NUMBERING

