

11.4 x 9.6 x 4.7mm SMD

60.0MHz to 240.0MHz

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

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
Colpor vollage File (1).	Vdd-0.880V maximum
Output Voltage LOW (0):	Vdd-1.810V minimum
Colpor vollage LC IV (o).	Vdd-1.620V maximum
	$(RL=50\Omega \text{ to Vdd-2V})$
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
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

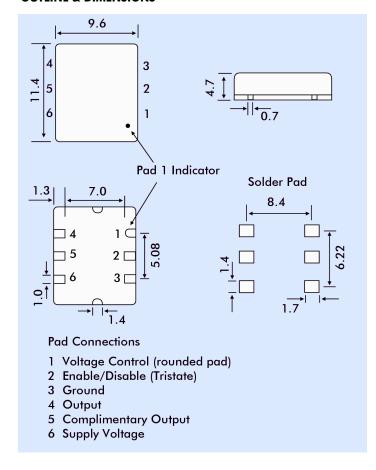
If non-standard frequency stability is required Use '1' followed by stability, i.e. 120 for ±20ppm

ENABLE/DISABLE FUNCTION

Tristate Pad Status	Output Status
Not connected Below 0.3Vdd (Ref. to ground)	LVPECL and Complimentary LVPECL enabled Both outputs are disabled (high impedance)
	Both outputs are enabled



OUTLINE & DIMENSIONS



PART NUMBERING

