

- Frequency range 50.01MHz to 200MHz
- LVCMOS Output
- Supply Voltage 3.3 VDC
- High Q fundamental mode crystal
- Low jitter multiplier circuit
- Low unit cost

DESCRIPTION

GV42 VCXOs, are packaged in an industry-standard, 4 pad, 11.4mm x 9.6mm x 2.5mm SMD package. The VCXO incorporates a high Q fundamental mode crystal and a low jitter multiplier circuit.

SPECIFICATION

Frequency Range	e:	50.01MHz to 200.0MHz
Supply Voltage:		3.3 VDC ±5%
Output Logic:		LVCMOS
Integrated Phase	e Jitter:	2.3ps typical, 4.0ps maximum (for 155.250MHz)
Period Jitter RMS	S:	4.0ps typical (for 155.250MHz)
Period Jitter Pea	k to peak:	27.0ps typical (for 155.250MHz)
Phase Noise:		See table below
Initial Frequency	Accuracy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC
Output Voltage	HIGH (1):	90% Vdd minimum
Output Voltage	LOW (0):	10% Vdd maximum
Pulling Range:		From ±30ppm to ±150ppm
Temperature Sta	ıbility:	See table
Output Load:		15p F
Start-up Time:		10ms maximum, 5ms typical
Duty Cycle:		50% ±5% measured at 50% Vdd
Rise/Fall Times:		1.2ns typical (15pF load)
Current Consum	ıption:	25mA maximum (15pF load)
Linearity:		10% maximum, 6% typical
Modulation Band	dwidth:	25kHz minimum
Input Impedance	e:	2 MΩ minimum
Slope Polarity:		Monotonic and Positive. (An
(Transfer functio	n)	increase of control voltage
		always increases output
		frequency.)
Storage Temper	ature:	-50° to +100°C
Ageing:		±5ppm per year maximum
Enable/Disable	(Tristate):	Not available (4 pad package)
RoHS Status:		Fully 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

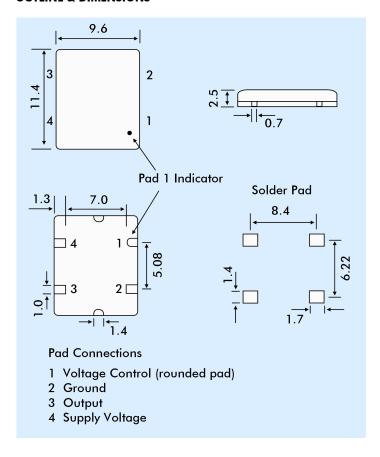
If non-standard frequency stability is required Use 'I' followed by stability, i.e. I20 for ±20ppm

11.4 x 9.6 x 2.5mm 4 pad SMD





OUTLINE & DIMENSIONS



PHASE NOISE

Offset	Frequency 155.25MHz
10Hz	-65dBc/Hz
100Hz	-95dBc/Hz
1kHz	-120dBc/Hz
10kHz	-128dBc/Hz
100kHz	-122dBc/Hz
1MHz	-120dBc/Hz
10MHz	-140dBc/Hz

PART NUMBERING

