

VCXO
Voltage Controlled
Crystal Oscillator

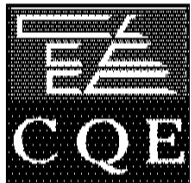
OSCILLATOR DATA SHEET

NUMBER
DVC 1221

REVISION
B

DATE
27 août 1997

	Unit	Min	Nominal	Max	Note		
NOMINAL FREQUENCY	MHz		19,44		At V control: 2.5 V : +/- 5 PPM		
TEMPERATURE RANGE							
Operating G1	°C	-40		85			
Functional G2	°C						
Storage G3	°C	-40		105			
POWER SUPPLY	V	4,75	5	5,25			
CONSUMPTION	mA			15			
Start up	mA						
FREQUENCY ADJUSTMENT							
External potentiometer value	KOhm				Internal adjustable capacitor		
External resistor	KOhm						
External control voltage	V						
Input impedance	KOhm						
Frequency range	ppm						
Reference voltage	V						
Zout or Iout	mA						
VOLTAGE CONTROL							
Frequency pulling range	±ppm	100		150	Slope Positive		
Frequency control voltage	V	0,25		4,75			
Input impedance	KOhm	10			At -3dB % (Least squares straight)		
Bandwidth	KHz	15					
Linearity	%			5			
OUTPUT SIGNAL WAVEFORM							
Level	V				Square HCMOS compatible		
Harmonics / Duty cycle	%	45		55			
Sub harmonics / Rise time	ns			10			
Non harmonics / Fall time	ns			10			
Load	pF		5	15			
FREQUENCY STABILITY							
Vs temperature range G1	±ppm			15	Per supply voltage change percentage load = 15 pF +/- 10 %		
G2	±ppm						
Vs power supply	±ppm			1			
Vs load	±ppm			1			
AGEING	✗	1 year	10 year	1 year	After continuous operating for:		
Medium/long term stability	±ppm	2	10		at 40°C		
Short term stability	✗	1 ms	10 ms	100 ms	1 s	Allan variance	
	±ppm						
PHASE NOISE	✗	1 Hz	10 Hz	100 Hz	1 KHz	100 KHz	
Static conditions	dBc/Hz	45	75	105	130	145	
Dynamic conditions	dBc/Hz						
MECHANICAL CONDITIONS							
Shocks	IEC 68-2-27: 3x3 shocks 100g,half-sine, 6ms						
Vibrations	IEC 68-2-6: 10 Hz to 2000 Hz/ 20 g / 3axes						



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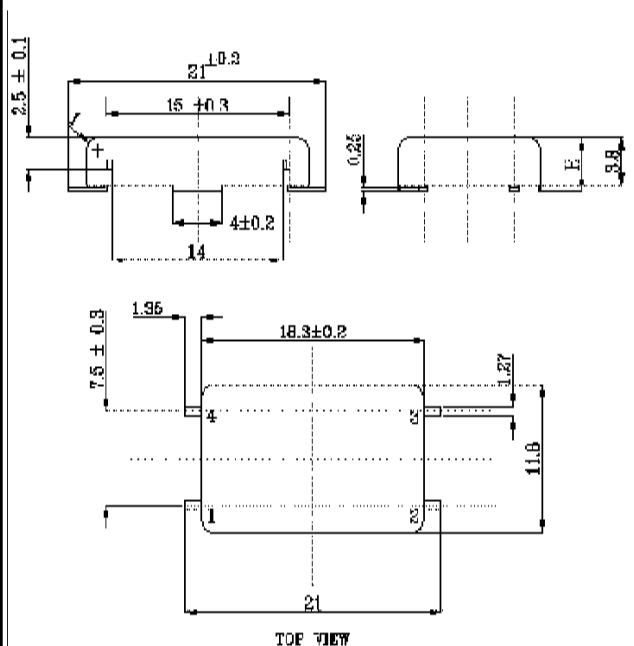
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PACKAGE / PIN OUT

PINOUT: 1 : Control voltage
2 : GND
3 : Freq. output
4 : Vcc (+5V)



HEIGHT: 4,3
CASE: 85-2
TYPE: 85

LABEL: SEE N°42530 FOR
LABEL AREA

COMMENTS

Global stability on 10 years : +/-35 PPM Linearity (Delta freq deviation)/(Peak to peak deviation)

Customer's reference:

CQE VISA

NAME:
DATE: