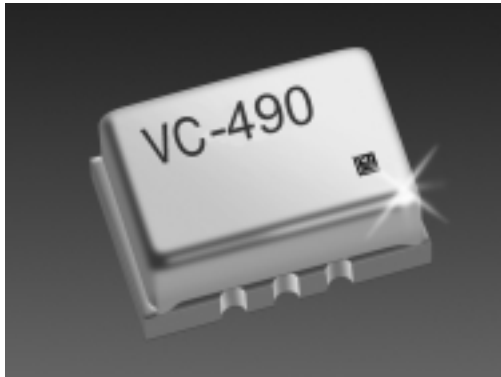


Voltage Controlled Crystal Oscillators

VC-490/495



Description

precision 14 x 9 mm VCXO with high frequency crystal, standard footprint.

Features

- Small SMD HFF VCXO
- 50.0MHz to 170MHz
- 3.3V supply voltage
- -20 to +70°C / -40 to 85°C
- LVPECL / HCMOS / LVDS output
- Complementary outputs available

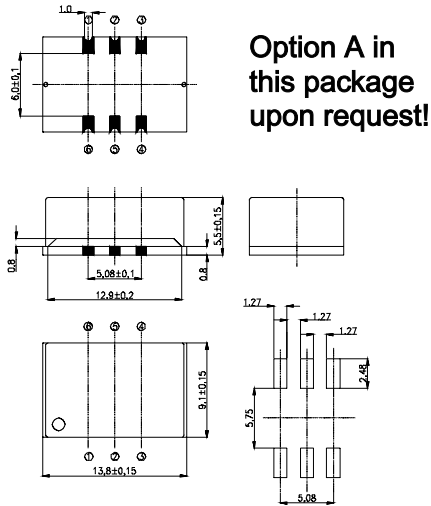
Performance Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Units
Frequency:	f_o	50.0		170.0	MHz
Supply Voltage:	VCC	3.135	3.3	3.465	V
Output option A LVHCMOS: option F compl. LVPECL: option P compl. LVDS:	I_{cc} I_{cc} I_{cc}		20.0 50.0 15.0	40.0 70.0 40.0	mA mA mA
Output option A option F : option P :			LVHCMOS complementary. LVPECL complementary. LVDS		
Output load option A : option F : option P :			1 kOhm // 15pF 50 Ohm 100 Ohm differential		
Rise/Fall Time t_r/t_f : option A : option F : option P :	t_r / t_f t_r / t_f t_r / t_f			3.0 1.0 1.0	ns ns ns
Symmetry (Duty/Cycle):	SYM	40		60	%
Temp. stab. D - 205 -20 to +70°C: F - 305 -40 to +85°C:	F_{TEMP} F_{TEMP}	-20.0 -30.0		+20.0 +30.0	ppm ppm
Accuracy @ +25C after reflow:	FCAL	-15.0		+15.0	ppm
Aging first year: Aging per year thereafter:	F_{FIRST} F_{AGING}	-3.0 -2.0		+3.0 +2.0	ppm ppm
Freq. vs. supply for ±5% change:	F_{SUP}	-3.0		+3.0	ppm
Freq. vs. load for ±10% change:	F_{LOAD}	-1.0		+1.0	ppm
Deviation:	F_{PULL}	±100			ppm
Control voltage:	V_c	0.3		3.0	V
Transfer Function:		positive			
Linearity:	Lin			±10	%
Storage Temperature:	TS	-45		+95	°C
Package Size:		13.8 x 9.1 x 5.5 mm			

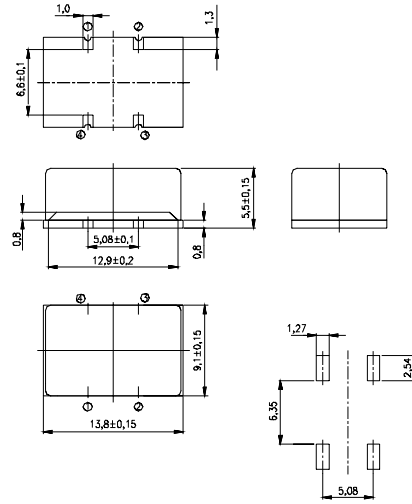
Voltage Controlled Crystal Oscillators

VC-490/495

Option A outline drawing/pad layout



Option F, P outline drawing/pad layout



VCXO

Pin Out Information, VC-490

Pin	Function
1	Control Voltage
2	N.C. (Output Enable/Disable)
3	GND, Case
4	RF Output
5	Complementary RF-output
6	Supply Voltage

Pin Out Information, VC-495

Pin	Function
1	Control Voltage
2	GND, Case
3	RF Output
4	Supply voltage

Standard Frequencies

61.44MHz	77.76MHz	125.0MHz	155.52MHz	166.6286MHz	167.331645MHz
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Ordering Information

