

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 output
- Complementary outputs available

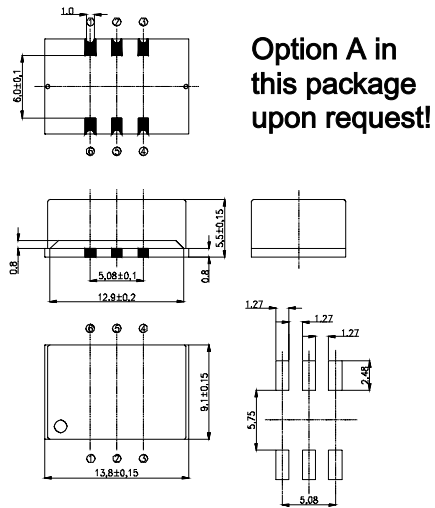
Performance Characteristics

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:	I _{cc} I _{cc}		20.0 50.0	40.0 70.0	mA mA
Output option A option F :		LVHCMOS complementary. LVPECL			
Output load option A : option F :		1 kOhm // 15pF 50 Ohm			
Rise/Fall Time tr/ta: option A : option F :	tr / ta tr / ta			3.0 1.0	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:	F _{FIRST}	-3.0		+3.0	ppm
Aging per year thereafter:	F _{AGING}	-2.0		+2.0	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				

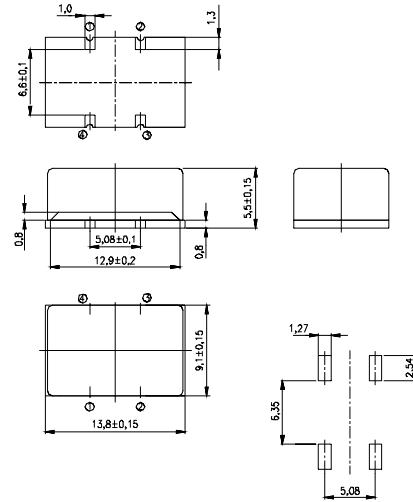
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Option A outline drawing/pad layout



Option F 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

