



Specifications

Package	VCX8R		
Frequency Range (fo)	1.000MHz ~ 155.520MHz		
Logic Family	HCMOS		
Freq. Stability (Df/fo)	±50ppm		
Pullability	±100ppm		
Aging/Year (fa)	5ppm		
Temp. Range	Operating (TOPR)	0°C ~ +70°C	
	Storage (TSTG)	-55°C ~ +125°C	
Phase Jitter RMS (12-20MHz)	1pS Max		
Linearity	±10%		
Frequency Control	2.5v ±2.0v		

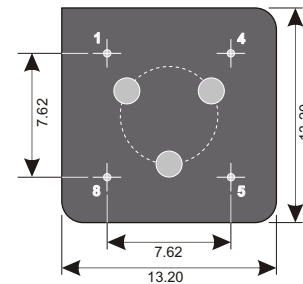
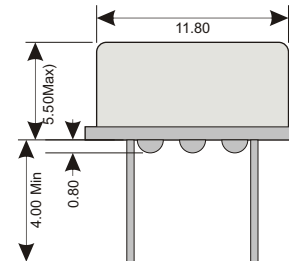
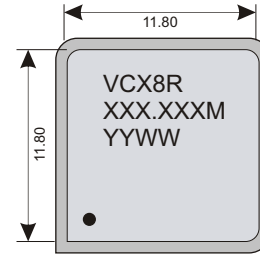
Electrical - HCMOS

Power Supply	Voltage (VDD)	5.0VDC ±5%	3.3VDC ±5%
	INPUT Current	0.5 ~ 20.0MHz	20mA Max
		20.1 ~ 60.0MHz	40mA Max
		60.0MHz ~ 155.520MHz	50mA Max
Stand-by current	10uA Max		
Output	Load	15pF	
	Voltage (VOL Max.)	0.5Vdc Max	0.4Vdc Max
	Voltage (VOH Min.)	4.5Vdc Min	1.7Vdc Min
Start-up Time	10mS Max		
Symmetry/Duty	45/55 @ 50% Level		

Absolute Maximum Ratings

Maximum Storage Temp	-55°C to +125°C	
Voltage (VDD)	7.0 VDC	5.0 VDC
Input Voltage	-0.5Vdc ~ Vdd+0.5Vdc	

Dimensions (mm)



Lead Free



RoHS
RoHS II
Lead
Reach
Compliant



Free Of
DRC
Conflict
Minerals

Connections

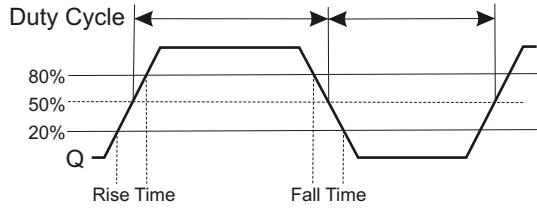
Pin 1	+Voltage Control
Pin 2	Ground
Pin 3	Output
Pin 4	Vdd



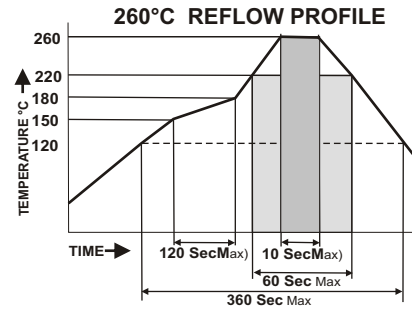
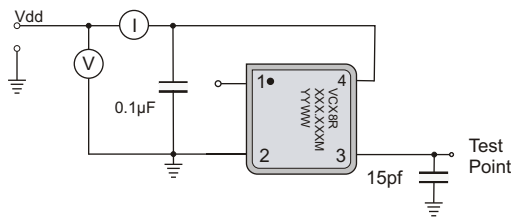
Environmental And Mechanical

Temperature	10 Cycles of -30°C (30Mins), Normal (1Hr), 85°C (30Mins), Normal (1Hr)
Shock	Accelerated at 1000G for 1mS in each perpendicular axis.
Vibration	4 Cycles of 20G acceleration at 20 - 2,000Hz within 4 Minutes in each perpendicular axis.
Solder	Peak Temperature of 260°Cmax for 10 Seconds with preheat of 160°C for 90±10% for 10 Seconds for a Maximum of 2 Cycles.

HCMOS Waveform

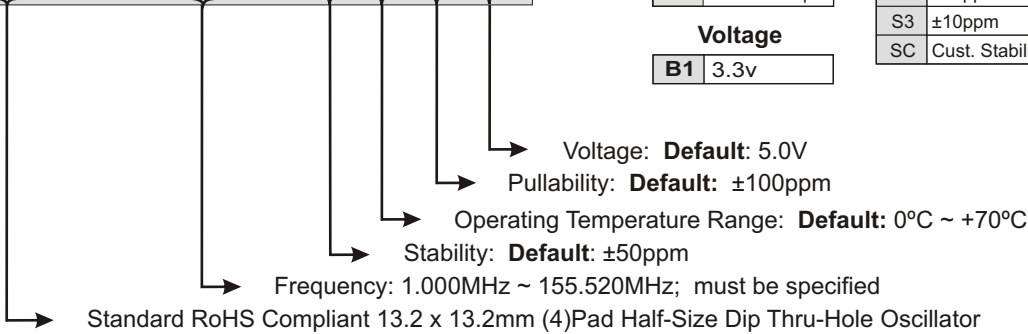


HCMOS Test Circuit



Part Number

VCX8R - XXX.XXX M-SX RX HX BX



OP Temp	
R6	-40°C ~ +85°C
RC	Custom Temp.
Voltage	
B1	3.3v

Stability	
S1	±50ppm
S2	±25ppm
S3	±10ppm
SC	Cust. Stability

Pullability	
H2	±75ppm Pull
H3	±100ppm Pull
H4	±125ppm Pull
H5	±150ppm Pull
H6	±200ppm Pull
H7	±250ppm Pull
HC	Cust. Pull

Example: **VCX8R-125.000M** 125.000MHz, 5.0V ±100ppm Oscillator operating at 0°C ~70°C
 Example: **VCX8R-125.000M-S2R6B1** 125.000MHz, 3.3V ±25ppm Oscillator operating at -40°C ~ +85°C,