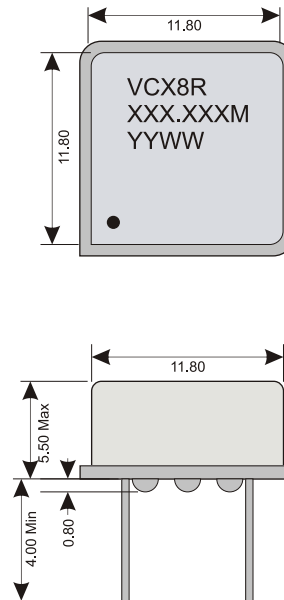




### Specifications

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	

### Dimensions (mm)



Lead Free



EU RoHS  
EU RoHS  
Leaf  
Compliant



Reach  
Compliant



China  
RoHS  
Compliant



Conflict  
Minerals  
Free

### Electrical - HCMOS

Power Supply	Voltage (VDD)	5.0Vdc ±5%	3.3Vdc ±5%	
	INPUT Current	0.5 ~ 20.0MHz	20mA Max	10mA Max
		20.1 ~ 60.0MHz	40mA Max	20mA Max
		60.0MHz ~ 155.520MHz	50mA Max	30mA 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

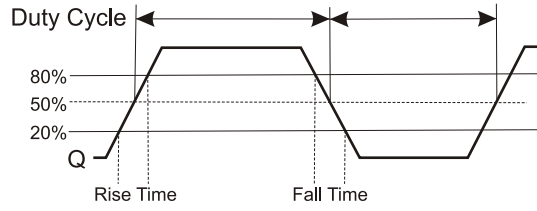
Maximum Storage Temp	-55°C to +125°C	
Voltage (VDD)	7.0 VDC	5.0 VDC
Input Voltage	0.5Vdc ~ Vdd+0.5Vdc	

### Connections

Pin 1	+Voltage Control
Pin 4	Ground
Pin 5	Output
Pin 8	Vdd



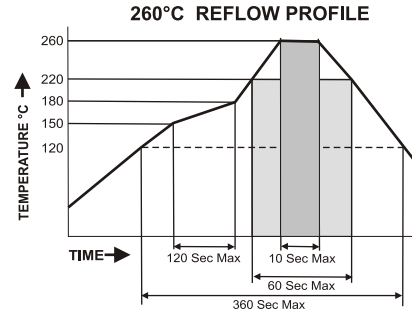
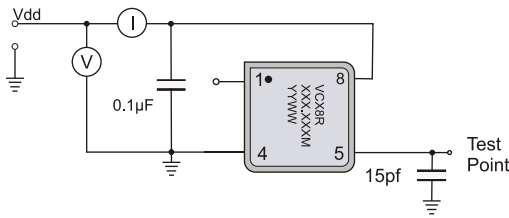
**HCMOS Waveform**



**Environmental And Mechanical**

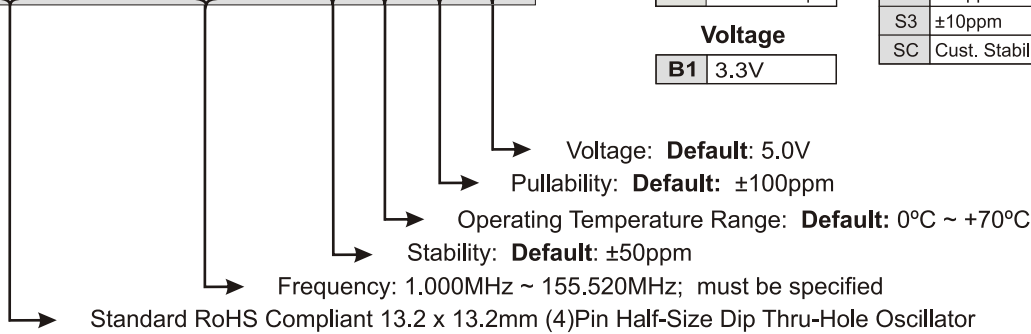
<b>Temperature</b>	10 Cycles of -30°C (30Mins), Normal (1Hr), 85°C (30Mins), Normal (1Hr)
<b>Shock</b>	Accelerated at 1000G for 1mS in each perpendicular axis.
<b>Vibration</b>	4 Cycles of 20G acceleration at 20 - 2,000Hz within 4 Minutes in each perpendicular axis.
<b>Solder</b>	Peak Temperature of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

**HCMOS Test Circuit**



**Part Number**

**VCX8R - XXX.XXX M-SX RX HX BX**



OP Temp		Stability		Pullability	
R6	-40°C ~ +85°C	S1	±50ppm	H2	±75ppm Pull
RC	Custom Temp.	S2	±25ppm	H3	±100ppm Pull
		S3	±10ppm	H4	±125ppm Pull
		SC	Cust. Stability	H5	±150ppm Pull
				H6	±200ppm Pull
				H7	±250ppm Pull
				HC	Cust. Pull

Voltage	
B1	3.3V

Example: **VCX8R-125.000M** 125.000MHz, 5.0V ±50ppm Oscillator operating at 0°C ~70°C  
 Example: **VCX8R-125.000M-S2R6B1** 125.000MHz, 3.3V ±25ppm Oscillator operating at -40°C ~ +85°C,

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
 PLEASE CONTACT YOUR IMPACT SALES REPRESENTATIVE FOR CUSTOM SPECIFICATIONS, CURRENT INFORMATION, PRICING AND AVAILABILITY.