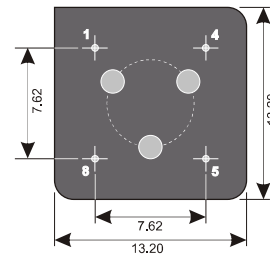
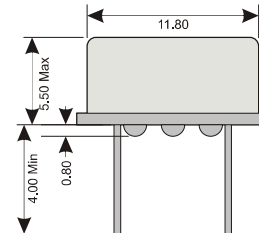
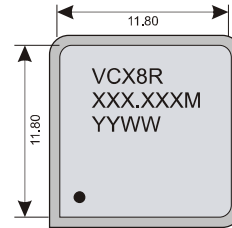




Specifications

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)



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
		20.1 ~ 60.0MHz	40mA Max
	60.0MHz ~ 155.520MHz	50mA Max	10mA Max 20mA 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

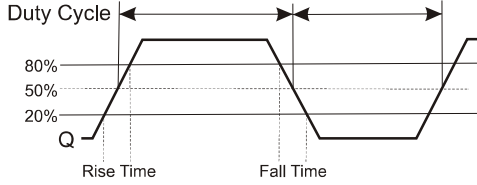
Maximum Storage Temp	-55°C to +125°C	
Voltage (VDD)	7.0 Vdc	5.0 Vdc
Input Voltage	0.5Vdc ~ Vdd+0.5Vdc	

Connections

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



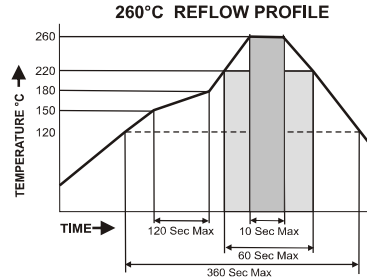
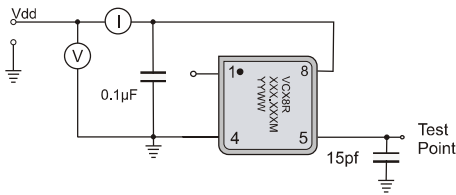
HCMOS Waveform



Environmental And Mechanical

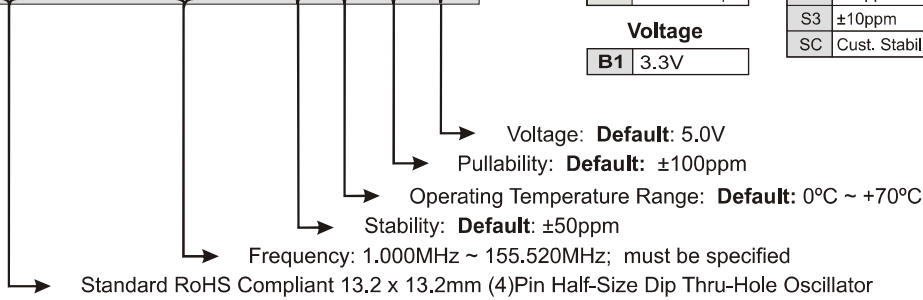
Temperature	10 Cycles of -30°C (30Mins), Normal (1Hr), 85°C (30Mins), Normal (1Hr)
Shock	Accelerated at 1000G for 1mS in each perpendicular axis.
Vibration	4 Cycles of 20G acceleration at 20 - 2,000Hz within 4 Minutes in each perpendicular axis.
Solder	Peak Temperature of 260°C Max for 10 Seconds with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

R6	-40°C ~ +85°C
RC	Custom Temp.

Voltage

B1	3.3V
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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 ±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,