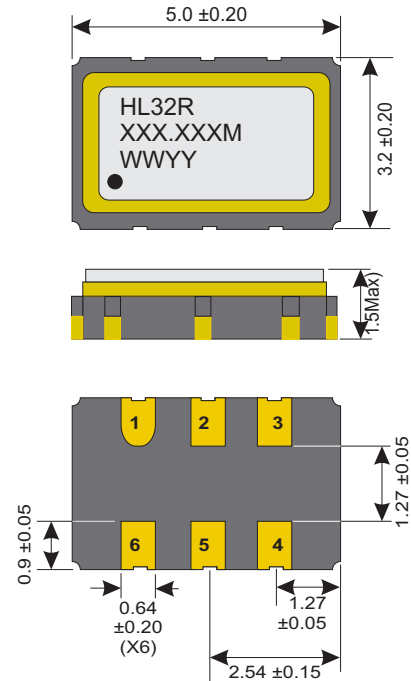




### Specifications

<b>Part Number</b>		HL32R
<b>Frequency (fo)</b>		27.000MHz ~ 220.000MHz
<b>Logic Family</b>		HCSL
<b>Freq. Stability (Df/fo)</b>		±100 ppm
<b>Temp. Range</b>	<b>Operating (TOPR)</b>	-10°C ~ +70°C
	<b>Storage (TSTG)</b>	-55°C ~ +125°C
<b>Start Time</b>		3.0mS

### Dimensions (mm)



RoHS  
Compliant  
LEAD  
FREE

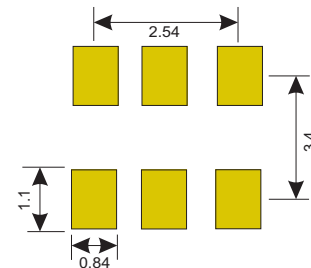
### Phase Noise

<b>RMS Phase Jitter (12kHz-20MHz)</b>		0.2pS Typ; 0.6pS Max
<b>Phase Noise</b>	@ 100Hz Offset	-90 dBc/Hz
	@ 1KHz Offset	-120 dBc/Hz
	@ 10KHz Offset	-135 dBc/Hz
	@ 100KHz Offset	-140 dBc/Hz
	@ 1MHz Offset	-145 dBc/Hz
	@ 10MHz Offset	-155 dBc/Hz

### Electrical

<b>Power Supply</b>	<b>Voltage (VDD)</b>	3.3 VDC ±5%	
	<b>Current (Icc)</b>	27 to 32.5MHz	28mA
<b>Stand-by current</b>		32.5 to 40MHz	28mA
		40 to 65MHz	28mA
		65 to 90MHz	28mA
		90 to 125MHz	30mA
		125 to 160MHz	32mA
		160 to 220MHz	32mA
<b>Output</b>		<b>Stand-by current</b>	
	<b>"H" Output Voltage</b>	10uA (Max)	
	<b>"L" Output Voltage</b>	660mv(Min) 740mv(Typ) 850mv(Max)	
	<b>Output Swing (Vopp)</b>	-150mv(Min) 0V(Typ) 150mv(Max)	
	<b>Output Load</b>	650mv (Min)	
	<b>Rise &amp; Fall Time</b>	50 Ω	
	<b>Output Symmetry</b>	0.5nS Typ (20% to 80%)	
		45/55% @ 50% Level	

### Land Pattern (mm)



### Tri-State

<b>Tri-State</b>	<b>Tri-State (Pin 1)</b>	<b>Output (Pin 4/5)</b>
	<b>Open (N/C)</b>	Active
	<b>0.7Vdd (Min)</b>	Active
	<b>0.3Vdd (Max)</b>	Disable (High Z)
<b>Enable Time</b>		2.0mS Max
<b>Disable Time</b>		200nS Max

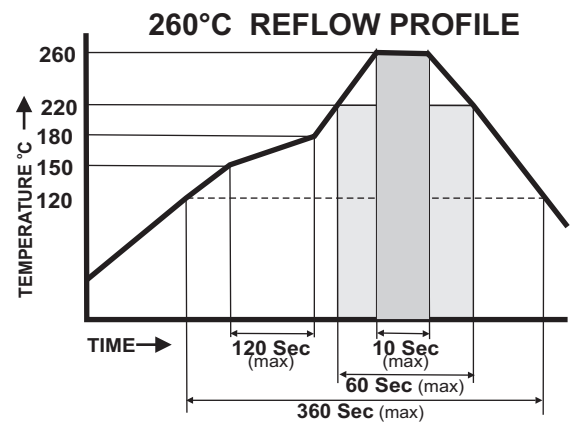
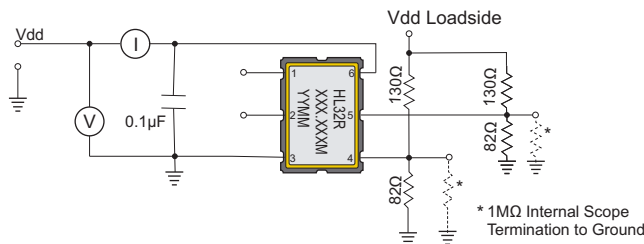
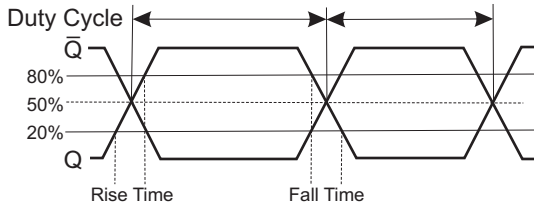
### Connections

<b>Pin 1</b>	Enable/Disable
<b>Pin 2</b>	N/C
<b>Pin 3</b>	Case Grnd
<b>Pin 4</b>	Output
<b>Pin 5</b>	OutputN
<b>Pin 6</b>	Vdd



### 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.



### Part Number

**HL32R - XXX.XXX M-SX RX-T**

- HL32R - Frequency: 27.000MHz ~ 220.000MHz
- XXX.XXX - Stability Options **Default:** ±100ppm; (See Table Above)
- M - Temperature Range Options **Default:** -10°C ~ +70°C
- SX - Tape & Reel
- RX - Standard RoHS Compliant 5.0 x 3.2mm SMD Clock Oscillator
- T -

### Stability      Temp Range

<b>S1</b>	±50ppm	<b>R6</b>	-40~+85°C
<b>S2</b>	±25ppm		
<b>S3</b>	±20ppm		

Example: **HL32R-155.000M-T** is 155.000MHz ±100ppm oscillator operating at -10°C ~ +70°C delivered on Tape & Reel  
 Example: **HL32R-155.000M-S2R6-T** is 155.000MHz ±25ppm oscillator operating at -40°C ~ +85°C delivered on Tape & Reel

### Tape & Reel

