

## VPC1 7.5 x 5 mm Crystal Oscillators

### Featuring

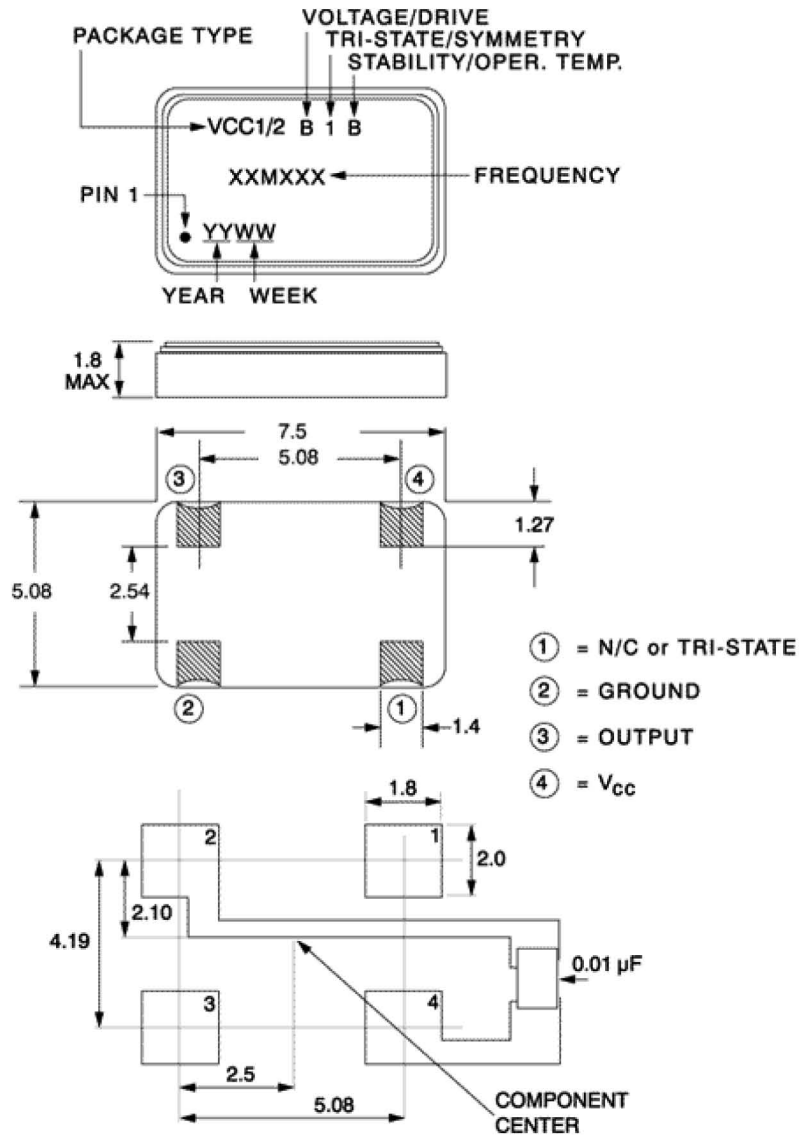
- Quick delivery
- Wide output frequency range up to 160 MHz
- Stabilities of  $\pm 25$ ,  $\pm 50$ ,  $\pm 100$  PPM
- 3.3 or 5.0 Vdc Option
- HCMOS/TTL Compatible



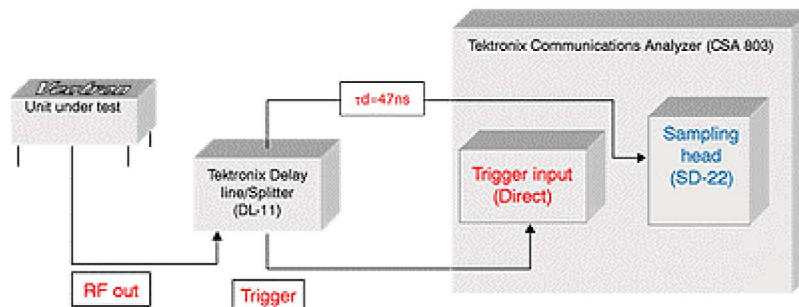
<b>Frequency Range</b>	1.544 MHz to 160 MHz (Up to 125 MHz for 3.3Vdc)
<b>Package Options</b>	<b>C1</b> = 7.5 x 5 x 1.8 mm tall 4 pads
<b>Voltage Options/ Load Drive</b>	<b>A</b> = +5.0 Vdc $\pm 10\%$ 15pF <b>B</b> = +3.3 Vdc $\pm 10\%$ 15pF <b>E</b> = +5.0 Vdc $\pm 10\%$ 50pF ( $\leq 66$ MHz) <b>F</b> = +3.3 Vdc $\pm 10\%$ 50pF ( $\leq 66$ MHz Non Standard)
<b>Electrical Options</b>	<b>1</b> = Tristate 60/40 Symmetry <b>3</b> = Tristate 55/45 Symmetry (Non Standard)
<b>Tristate</b>	N/C = OUTPUT Logic 1 = OUTPUT Logic 0 = High Impedance
<b>Stability Options</b>	<b>A</b> = $\pm 100$ PPM 0°C to +70°C <b>B</b> = $\pm 50$ PPM 0°C to +70°C <b>C</b> = $\pm 100$ PPM -40°C to +85°C <b>D</b> = $\pm 50$ PPM -40°C to +85°C (Non Standard) <b>E</b> = $\pm 25$ PPM 0°C to +70°C (Non Standard) <b>F</b> = $\pm 25$ PPM -40°C to +85°C (Non Standard)
<b>Start-Up</b>	10 ms Maximum
<b>Standard Load</b>	HCMOS/TTL
<b>Total Jitter</b>	250 ps peak to peak
<b>Standard Packaging</b>	Bulk
<b>Typical P/N</b>	<b>VPC1-B1B-40M000</b> <b>C1</b> = 7.5 x 5 x 1.8 mm tall 4 pads <b>B</b> = +3.3 Vdc $\pm 10\%$ 15pF <b>1</b> = Tristate 60/40 Symmetry <b>B</b> = $\pm 50$ PPM 0°C to +70°C

1. As measured in a test circuit below.

2. Non Standard items may have limited frequency availability and most likely slightly longer lead times.



Dimensions in Millimeters



Jitter Test Circuit