

VPA1 14 Pin Dip Crystal Oscillators

Featuring

- Quick delivery
- Wide output frequency range up to 125 MHz
- Stabilities of ±50, ±100 PPM
- 3.3 or 5.0 Vdc Option
- HCMOS/TTL Compatible



Frequency Range 1.544 MHz to 125 MHz

Package Options $A1 = 0.8" \times 0.5" \times 0.2" 14 pin DIP$

Voltage Options/ $A = +5.0 \text{ Vdc } \pm 10\% \text{ 15pF}$ Load Drive $B = +3.3 \text{ Vdc } \pm 10\% \text{ 15pF}$

 $E = +5.0 \text{ Vdc } \pm 10\% \text{ 50pF } (\leq 66 \text{ MHz})$

Electrical Options 1 = Tristate 60/40 Symmetry

3 = Tristate 55/45 Symmetry (Non Standard)

Tristate N/C = OUTPUT

Logic 1 = OUTPUT

Logic 0 = High Impedance

Stability Options $A = \pm 100 \text{ PPM } 0^{\circ}\text{C to } +70^{\circ}\text{C}$

B = ± 50 PPM 0°C to +70°C **C** = ± 100 PPM -40°C to +85°C **D** = ± 50 PPM -40°C to +85°C

Start-Up 10 ms Maximum

Standard Load HCMOS/TTL

Total Jitter¹ 50 ps peak to peak Maximum

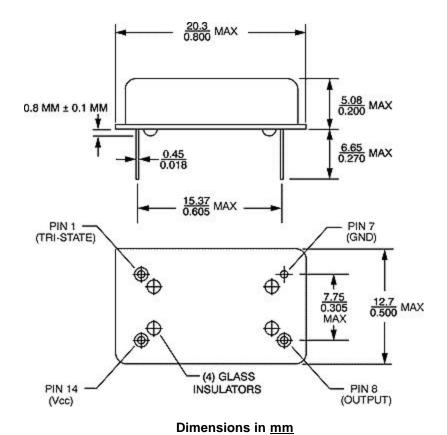
Standard Packaging Anti Static Tubes

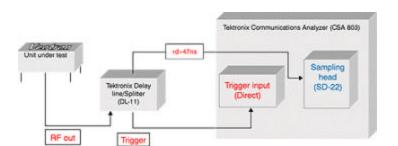
Typical P/N VPA1-B1B-40M000

A1 = 0.8" x 0.5" x 0.2" 14 pin DIP **B** = +3.3 Vdc ±10% 15pF **1** = Tristate 60/40 Symmetry **B** = ±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.





Jitter Test Circuit