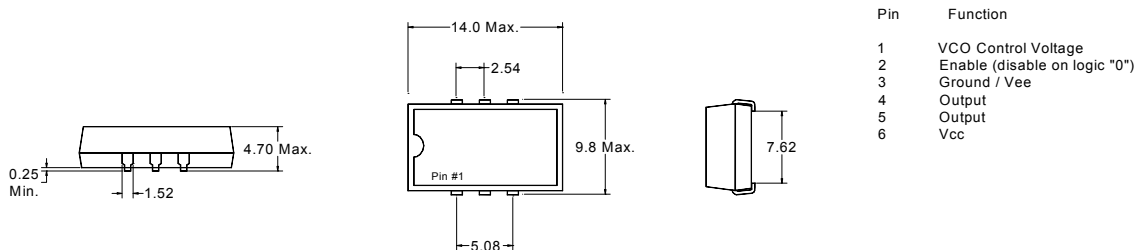


|                           |  |                     |  |             |
|---------------------------|--|---------------------|--|-------------|
| Type                      | QCV45  |                     | QCV50  |             |
| Frequency                 | 25.000 MHz ~ 650.000 MHz                       |                     | 25.000 MHz ~ 650.000 MHz                     |             |
| Output Level              | PECL   |                     | LVDS   |             |
| “0” Level                 | Vcc – 1.63 Max. ( PECL )                       |                     | 1.125 VDC Max ( LVDS )                       |             |
| “1” Level                 | Vcc – 1.02 Min. ( PECL )                       |                     | 1.375 VDC Min ( LVDS )                       |             |
| Duty Cycle                | 40% / 60% @ Vcc-1.3 VDC ( PECL )               |                     | 40% / 60% @ 1.25 VDC ( LVDS )                |             |
| Rise/ Fall Time           | 0.6 nS Max., 20% to 80% Levels                 |                     | 0.6 nS Max., 20% to 80% Levels               |             |
| Output Load               | 50 Ohms to Vcc – 2.0 VDC                       |                     | 50 Ohm Differential                          |             |
| Supply Voltage            | 3.3 Vdc ±5%                                    |                     | 3.3 Vdc ±5%                                  |             |
| Supply Current            | <160 MHz, 95 mA Max.<br>>160 MHz, 120 mA Max.  |                     | <160 MHz, 50 mA Max.<br>>160 MHz, 80 mA Max. |             |
| Stability                 |  |                     |  |             |
| Frequency vs. Temperature | See Frequency Stability Table                  |                     |  |             |
| Control Voltage Range     | 0.3 VDC Min. / 1.65 VDC Nominal / 3.0 VDC Max. |                     |  |             |
| Pullability               | See Pullability Table                          |                     |  |             |
| Temperature               |  |                     |  |             |
| Operating                 | See Temperature Range Table                    |                     |  |             |
| Storage                   | -55°C to +125°C                                |                     |  |             |
| <b>Part Number Guide</b>  | <b>Sample Part #:</b>                          |                     | <b>QCV45-A12- 650.000</b>                    |             |
|                           | Temperature Range                              | Frequency Stability | Pullability                                  | Frequency   |
| QCV45<br>QCV50            | A  | 1                   | 2  | 650.000 MHz |
| Temperature Range Table   | Frequency Stability Table                      |                     | Pullability Table                            |             |
| A = 0°C to +70°C          | 1 = ± 100 ppm                                  |                     | 1 = ± 50 ppm Min.                            |             |
| B= -30°C to +80°C         | 2 = ± 50 ppm                                   |                     | 2 = ± 75 ppm Min.                            |             |
| C= -40°C to +85°C         | 3 = ± 25 ppm                                   |                     | 3 = ± 80 ppm Min.                            |             |



### QVS TECH INC

6965 El Camino Real, Ste 105 Carlsbad, CA 92009 Phone: 760-929-8677 Fax: 760-929-8077  
email: [sales@qvstech.com](mailto:sales@qvstech.com)