



### STANDARD PERFORMANCE REPRESENTATION

- Temperature Range                     $-10^{\circ}\text{C}$  to  $60^{\circ}\text{C}$
- Stability (ppm)                         $\pm 3$  to  $\pm 100$
- Load Capacitance ( $C_L$ )            Series to  $150\text{pF}$
- Calibration ppm at  $25^{\circ}\text{C}$          $\pm 5$  to  $\pm 50$  ( $\pm 10\text{ppm}$  typical)
- ESR                                         $R_1$  Refer table
- Shunt ( $C_O$ )                             $7\text{pF}$  Maximum
- Motional Capacitance                ( $C_1$ ) Refer table
- Drive Level                              $0.5\text{mW}$  Typical

Mode	Frequency Range (MHz)	Max. ESR (Ohms)*	$C_1$ Typ. (fF)*
Fund.	16 to 45	30	9 to 26
3rd	40 to 90	50 to 60	0.5 to 1.5
5th	70 to 150	90	0.70
7th	125 to 175	180	0.20

**Note:**

Above parameters are for standard crystal units.  
 Hy-Q sales office should be contacted for special requirements.  
 \* Value dependent upon frequency.