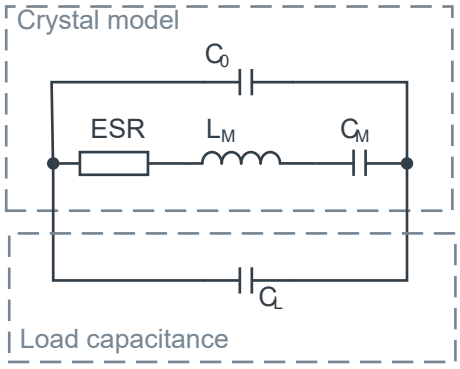

Figure 16: Simplified crystal model

The crystal needs to have parameters ESR, C_0 , and C_L selected to ensure the crystal oscillator is stable.

The following figure shows the maximum allowable combinations of ESR, C_0 and C_L for a given crystal. A crystal is supported if that crystal's parameters fall directly on the line or below it. Crystals that are above the line are not supported.

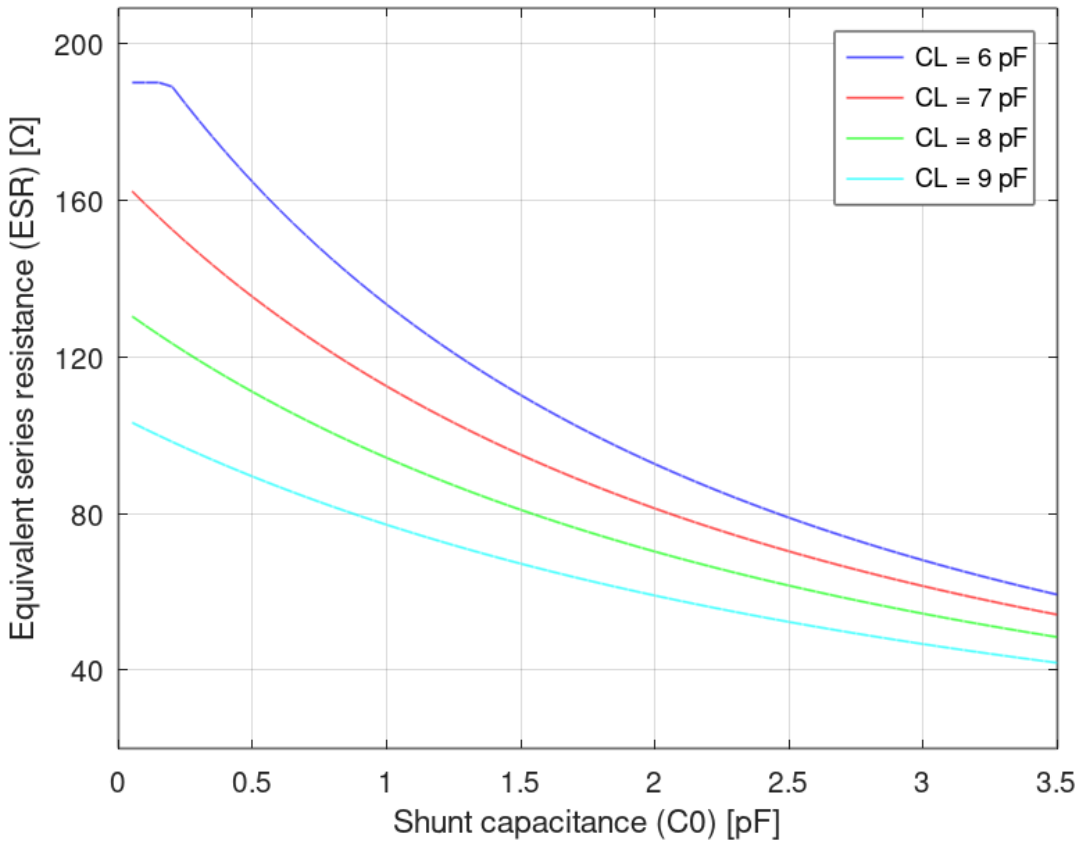

Figure 17: Maximum allowed combinations of ESR and C_0 for a given load capacitance C_L

5.5.2 Low-frequency (32.768 kHz) crystal oscillator (LFXO)

For clock accuracy higher than LFRC, the 32.768 kHz crystal oscillator (LFXO) must be used.

To use the LFXO, a 32.768 kHz crystal must be connected between the **XL1** and **XL2** pins, as shown in the following figure.