

Recommend 32.768KHz crystal for use with 16LF88 Timer1?

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Hi,

Quick question: Can someone recommend a thru-hole crystal for use with the 16LF88 (one of the newer NanoWatt PICs with the low power optimized Timer1 oscillator). (Recommend a digikey part #?)

What I've figured out so far:

Tolerance plus/minus 20 PPM

ESR: 30 – 50 K max

Max Drive level probably should be 1uW (which means that I probably need a series resistor to prevent overdriving the crystal)

Load capacitance of crystal: 12 pF

1. Are the above specs correct for selecting a crystal for Timer1 use?
2. I don't understand the shunt capacitance parameter for crystals – from what I see on datasheets there's 1.00, 1.35, and 1.60 pF? Which one do I choose?
3. Will be prototyping circuit on solderless breadboard – any problems with doing this? (I know that due to the low voltage/power levels as well as differences in capacitance etc things may be different).

Thanks

Kevin.