

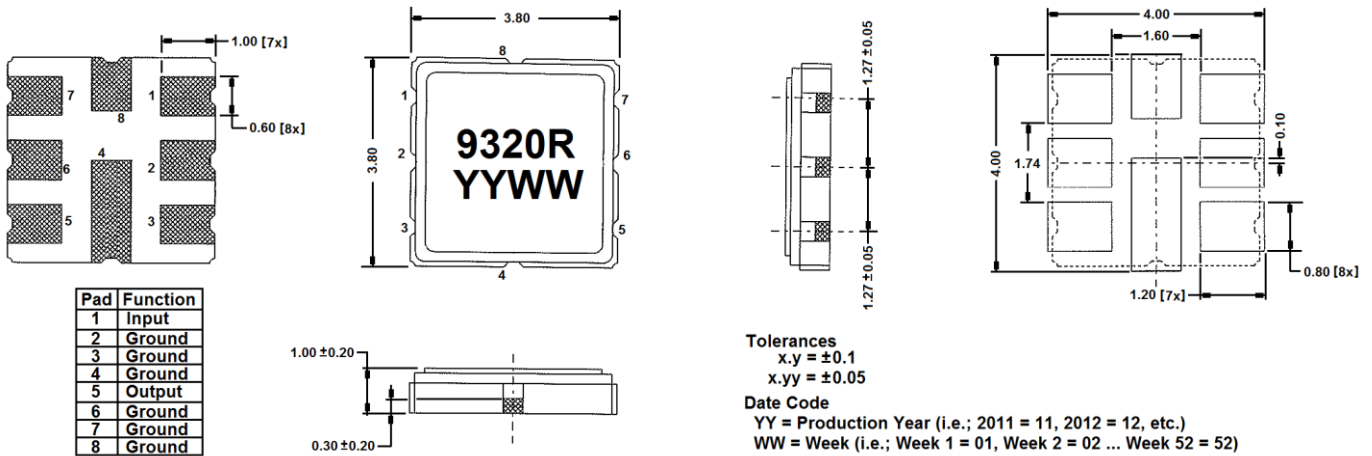
## Specification for a 3rd Overtone 3-Pole Monolithic SMD Crystal Filter MtronPTI P/N: XF9320R

### I. General & Electrical Requirements:

1. Center Frequency ( $F_{ON}$ ): 156.525MHz
2. 3dB Passband:  $\geq F_{ON} \pm 10.0\text{kHz}$
3. Insertion Loss (@ peak of transmission within the 3dB passband):  $\leq 5.0\text{dB}$
4. Passband Ripple (peak-valley):  $\leq 1.0\text{dB}$
5. Rejection (Minimum, Relative to Insertion Loss): 20dB:  $\leq F_O \pm 50.0\text{kHz}$
6. Guaranteed Attenuation: 70dB minimum,  $F_O - 900.0\text{kHz}$
7. Input Signal Level:  $\leq 0\text{dBm}$
8.  $Z_S/Z_L$ :  $800\Omega // -0.8\text{pF}$  nominal

### II. Environmental & Physical Requirements:

1. Temperature Range  
Operating:  $-30^\circ\text{C}$  to  $+85^\circ\text{C}$   
Storage:  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$
2. Solderability: Per EIAJ-STD-002
3. Package: SMD (ref drawing Figure 1)
4. Full RoHS Compliance

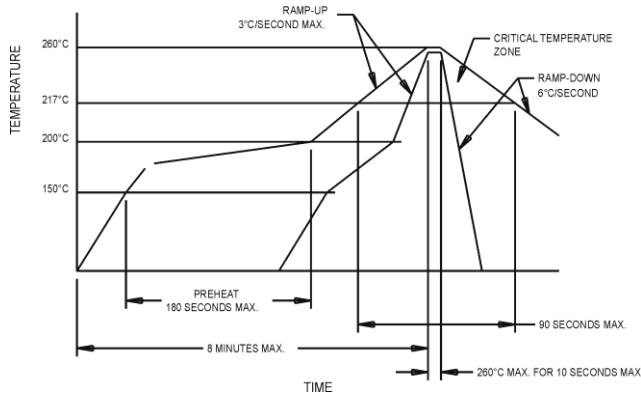


**Figure 1 – Filter Package Outline Drawing & Recommended PAD Layout**



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III. Recommended Reflow Profile:



IV. Reel Loading Orientation:

Tape & Reel per EIA-481

