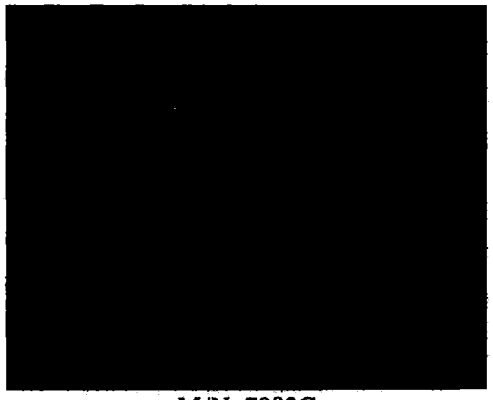
Uncompensated Crystal Oscillators

HI-G Shock Application

A special clock oscillator was designed by PTI to function in a gun launch and high speed flight environment associated with cannon fired ammunition. The critical requirements were that the clock oscillator survive launch environment (non-operating) and flight (operating) intact and maintain frequency.

To meet both the acceleration and the size requirement, PTI incorporated the Hi-Shock, Low-Profile crystal resonator discussed on page 27.



M/N 7003C

Specifications of M/N 7003C

Frequency:	120 MHz (20 to 120 MHz available)
Frequency Stability:	± 100 ppm
Temperature Range:	0 to +70°C
Supply Voltage:	5 VDC
Supply Current:	25 mA
Waveform:	Sinusoidal
Output Signal:	0.5 V Pk-Pk min. to 1.2 V Pk-Pk max. into 50 Ohms resistive load
Launch Acceleration:	25,000 G's, 7 milliseconds
Operating Acceleration:	< 1000 G's in all directions
Size:	.625 x .625 x .085 inches (l x w x h)

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