

**SCP****Sokol  
Crystal Products, Inc.**

"Where the Impossible Becomes the Ordinary."

**MILITARY  
CLOCK  
OSCILLATOR****Specifications****Frequency Range** (100 KHz to 140 MHz) \_\_\_\_\_**Output** \_\_\_\_\_ TTL and Cmos Compatible**Operating Temp. Range** \_\_\_\_\_ Option \_\_\_\_\_

| OPTION | TEMP. RANGE     | PPM  | OPTION | TEMP. RANGE     | PPM  |
|--------|-----------------|------|--------|-----------------|------|
| A      | -55°C to +125°C | ±100 | F      | -40°C to + 85°C | ± 50 |
| B      | -55°C to +105°C | ±100 | G      | + 0°C to + 70°C | ± 50 |
| C      | -55°C to +125°C | ± 50 | H      | + 0°C to + 70°C | ± 25 |
| D      | -55°C to +105°C | ± 50 | I      | + 0°C to + 70°C | ± 10 |
| E      | -40°C to + 85°C | ±100 |        |                 |      |

**Storage Temp. Range** \_\_\_\_\_ -55° to +125°C**Duty Cycle** \_\_\_\_\_ Option \_\_\_\_\_

| OPTION | %     | LOGIC |
|--------|-------|-------|
| 1      | 60/40 | Cmos  |
| 2      | 55/45 | Cmos  |

Note: TTL will always be 60/40% (max.)

**T-rise, T-fall** \_\_\_\_\_ 10.0 nS (max.) 4 nS (typical)**Voh (min.)** \_\_\_\_\_ TTL = 2.4V Cmos = -0.2V**Vol (max.)** \_\_\_\_\_ TTL = 0.5V Cmos = +0.2V**Supply Current (depend on frequency)** \_\_\_\_\_ mA for \_\_\_\_\_ MHz

i.e. 50 mA (max.) for 70 MHz

i.e. 25 mA (max.) for 25 MHz

**Supply Voltage** \_\_\_\_\_ 5.0 vdc (±10%)**Pin Configuration**

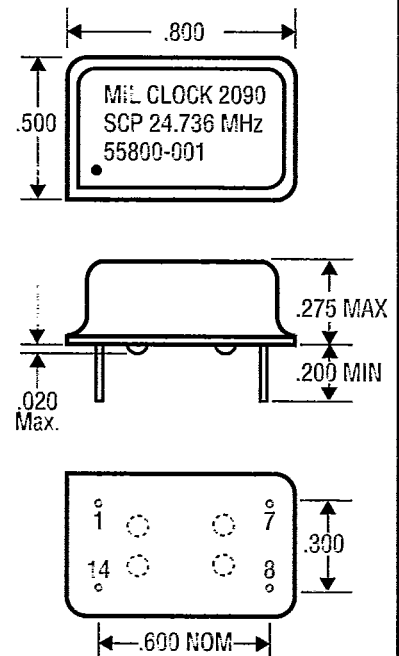
|    |                      |
|----|----------------------|
| 1  | N/C or Custom Option |
| 7  | Gnd/Case             |
| 8  | Output               |
| 14 | Vcc +5 vdc           |

**Available Custom Options**

- ☐ Enable/Disable  
☐ Dual Output  
☐ Dissimilar Outputs  
☐ Higher Frequency

**MIL Standard**

MIL-883 (Test Method)  
 MIL-I-45208 (Quality Program)  
 MIL-O-55310B (Oscillator)  
 MIL-STD-202 (Test Method)  
 MIL-C-3098G (Crystal Unit)  
 MIL-STD-2000 (Soldering)  
 MIL-STD-45662 (Calibration)

**Engineering Notes**