



### SPECIFICATIONS

|                        |   |
|------------------------|---|
| Frequency:             | 10.0MHz to 100.0MHz                                     |
| Output:                | Square Wave, HCMOS                                      |
| Load:                  | 15pF ±10%   |
| Symmetry:              | 50%±10%   |
| Rise/Fall Time:        | ≤10ns   |
| Temperature Stability: | see table   |
| Frequency vs. Supply:  | ±1x10 <sup>-7</sup> for a 5% change                     |
| Ageing:                | <1.0ppm/year  |
| Supply Voltage:        | +3.3V or +5.0VDC±5%                                     |
| Input Current:         | 30mA max.   |
| Frequency Adjust:      | ±6ppm typical, positive slope, 0V to supply voltage EFC |
| Environmental          |   |
| Vibration:             | per MIL-STD-202, Meth. 202, 201A                        |
| Shock:                 | per MIL-STD-202, Meth. 213, Cond. K                     |
| Storage Temperature:   | -55° to +85°C   |

### STABILITY OVER TEMPERATURE

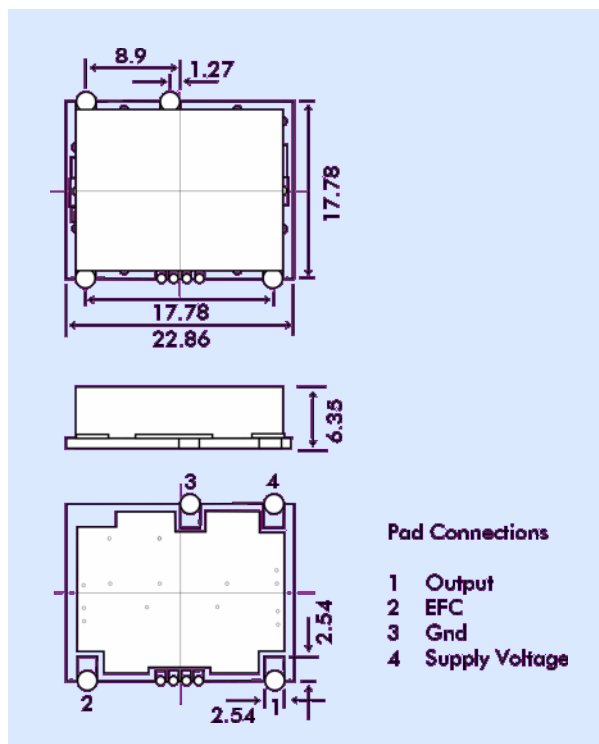
| Temp. Range | Tolerance           | Option Code |
|-------------|---------------------|-------------|
| -40°~+85°C  | ±5x10 <sup>-7</sup> | T57         |
| -40°~+85°C  | ±1x10 <sup>-7</sup> | T16         |

Ramp-up rate of up to 5°/minute. Part shall meet specification within 1 minute of turn-on.

### PHASE NOISE (Typical)

| Offset | dBc/Hz (10.0MHz) | dBc/Hz (100.0MHz) |
|--------|------------------|-------------------|
| 10Hz   | -95              | -70               |
| 100Hz  | -125             | -100              |
| 1kHz   | -145             | -125              |
| 10kHz  | -155             | -145              |
| 100kHz | -155             | -160              |

### T120 - OUTLINES AND DIMENSIONS



### PART NUMBERING

Example: **T120-T57-3.3-70.0MHz**

