



## TCXO I102 Series

## 14 Pin Dip Clipped Sine Wave

|                            |                                      |                   |
|----------------------------|--------------------------------------|-------------------|
| Frequency                  | 9.600 MHz ~ 35.000 MHz               |                   |
| Output Level               | 1.0 V <sub>p-p</sub> min             |                   |
| Output Load                | 20 K $\Omega$ /5 pf                  |                   |
| Stability                  |                                      |                   |
| Frequency vs. Temperature  | See Table Temperature Stability      |                   |
| Aging @ 25°C               | $\pm 1.0$ ppm / year Max             |                   |
| Frequency vs. Voltage      | $\pm 0.5$ ppm max / $\pm 5\%$ change |                   |
| Frequency vs. Load         | $\pm 0.3$ ppm max                    |                   |
| Frequency Adjustment Range | $\pm 3$ ppm min                      |                   |
| Supply Voltage             | 5.0 Vdc $\pm 5\%$                    | 3.3 Vdc $\pm 5\%$ |
| Current                    | 3mA Max                              |                   |
| Operating Temperature      | See Table                            |                   |
| Storage Temperature        | -40°C ~ +85°C                        |                   |

|                             |      | Frequency Stability in ( $\pm$ ppm) ** = Availability |     |     |     |     |     |     |     |
|-----------------------------|------|-------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Operating Temperature Range | Code | 1.5                                                   | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |
| 0°C ~ +50°C                 | 7    | **                                                    | **  | **  | **  | **  | **  | **  | **  |
| -10°C ~ +60°C               | 8    | **                                                    | **  | **  | **  | **  | **  | **  | **  |
| -10°C ~ +70°C               | 6    | **                                                    | **  | **  | **  | **  | **  | **  | **  |
| -20°C ~ +70°C               | 3    | **                                                    | **  | **  | **  | **  | **  | **  | **  |
| -30°C ~ +60°C               | 11   |                                                       | **  | **  | **  | **  | **  | **  | **  |
| -30°C ~ +70°C               | 10   |                                                       | **  | **  | **  | **  | **  | **  | **  |
| -30°C ~ +75°C               | 4    |                                                       |     | **  | **  | **  | **  | **  | **  |
| -40°C ~ +80°C               | 5    |                                                       |     |     |     | **  | **  | **  | **  |

| Part Number Guide |                   | Sample Part #: I102-7P5-20.000 |                        |            |
|-------------------|-------------------|--------------------------------|------------------------|------------|
|                   | Temperature Range | Frequency Stability            | Supply Voltage         | Frequency  |
| I102              | 7= 0°C ~ +50°C    | P= $\pm 2.0$ ppm               | 3=3.3 Vdc or 5=5.0 Vdc | 20.000 MHz |

