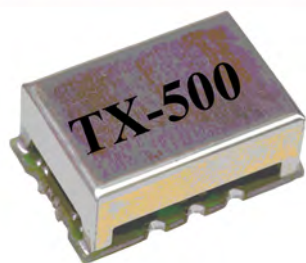


Helping Customers Innovate, Improve & Grow



TX-500

Features

- Low Phase Noise
- Low power consumption
- Output: HCMOS, Clipped Sinewave, PECL, True Sinewave
- Tight Tolerances
- Frequency range ¹ of 6.4 - 160 MHz
- Standard Frequencies : 10, 12.8, 16.384, 19.44, 19.2, 20, 26, 50, 77.76, 100, 122.88, 125, 155.52 MHz

Applications

- Base Station
- Test Equipment
- Communication Equipment
- Digital Switching
- Military

Performance Specifications

Frequency Stabilities¹ (Standard TCXO)

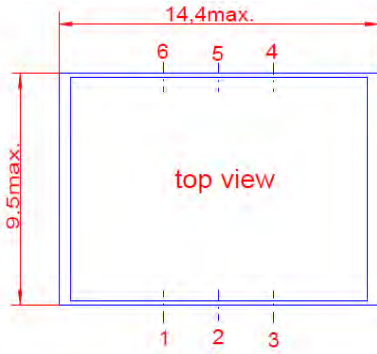
| Parameter | Min | Typical | Max | Units | Condition | Options ³ |
|--|-------|---------|-------|-------|----------------------------------|----------------------|
| vs. operating temperature range (referenced to +25°C) | -1 | | +1 | ppm | -40 to +85°C | |
| | -0.5 | | +0.5 | ppm | -40 to +85°C | |
| | -1 | | +1 | ppm | -20 to +70°C | |
| | -0.28 | | -0.28 | ppm | -20 to +70°C | |
| Initial tolerance | -1 | | +1 | ppm | at time of shipment, nominal EFC | |
| vs. supply voltage change | -0.2 | | +0.2 | ppm | V _s ±5% static | |
| vs. load change | -0.1 | | +0.1 | ppm | Load ±10% static | |
| vs. aging / year | -1 | | +1 | ppm | after 30 days of operation | |

Frequency Stabilities¹ (Stratum 3 TCXO)

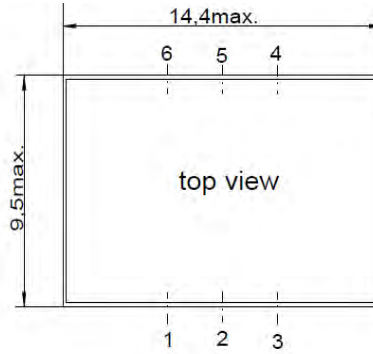
| Parameter | Min | Typical | Max | Units | Condition | Options ³ |
|---|-------|---------|-------|-------|----------------------------------|----------------------|
| vs. operating temperature range (referenced to +25°C) | -0.8 | | +0.8 | ppm | -40 to +85°C | |
| | -0.28 | | +0.28 | ppm | -40 to +85°C | |
| | -0.8 | | +0.8 | ppm | -20 to +70°C | |
| | -0.28 | | -0.28 | ppm | -20 to +70°C | |
| Initial tolerance | -1 | | +1 | ppm | at time of shipment, nominal EFC | |
| vs. supply voltage change | -0.2 | | +0.2 | ppm | V _s ±5% static | |
| vs. load change | -0.1 | | +0.1 | ppm | Load ±10% static | |
| vs. aging / year | -1 | | +1 | ppm | after 30 days of operation | |
| vs. aging / 20 years | -2.5 | | +2.5 | ppm | | |
| Over all tolerance | -4.6 | | +4.6 | ppm | | |
| Note: Stratum 3 per GR-1244-CORE: <±4.6ppm for all causes and 20years aging Holdover: <±0.37ppm over 24 hours | | | | | | |

Outline Drawing / Enclosure

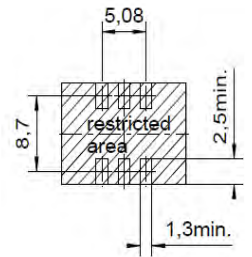
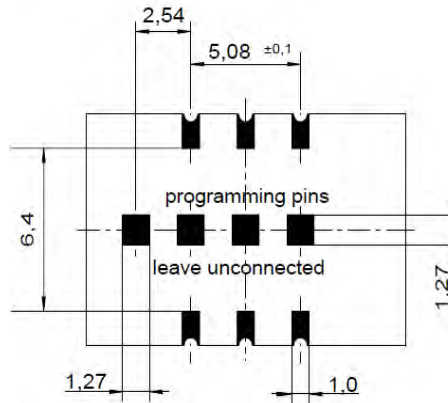
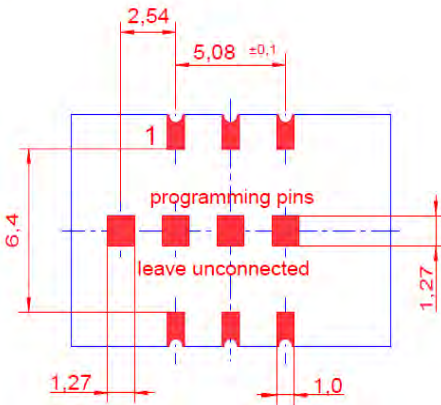
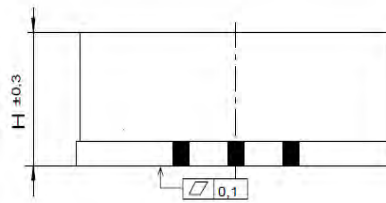
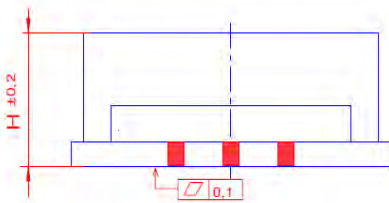
| TX-500 | |
|------------------|------------|
| Type | Height "H" |
| G214B [Standard] | 5.9 |
| G214C [Option] | 2.8 |
| G286C [Option] | 6.1 |



G 214
 H = 5,9 ; G 214 B
 H = 2,8 ; G 214 C
 H = 4,0 ; G 214 D



G 286
 H = 5,9 ; G 286 B
 H = 6,1 ; G 286 C



| Pin Connections (CMOS, Clipped Sinewave, True Sinewave) | |
|---|-----------------------------------|
| 1 | Control Voltage Input (Vc) / N.C. |
| 2 | N.C. |
| 3 | Ground (Case) |
| 4 | RF-Output |
| 5 | N.C. |
| 6 | Supply Voltage Input (Vs) |

| Pin Connections (PECL) | |
|------------------------|-----------------------------------|
| 1 | Control Voltage Input (Vc) / N.C. |
| 2 | N.C. |
| 3 | Ground (Case) |
| 4 | RF-Output |
| 5 | RF-Output_complementary |
| 6 | Supply Voltage Input (Vs) |