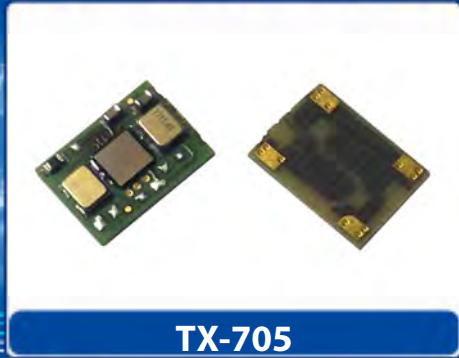


Helping Customers Innovate, Improve & Grow



Description

The TX-705 is a TCXO family designed for applications where superior g-sensitivity and good phase noise together with small package size is required.

Features

- Superior g-Sensitivity
- Withstands 1000 Temperature Cycles -55/125°C
- Good Phase Noise Behaviour
- Small Size, Low Profile
- 100% RoHS Compliant
- Frequency Range¹: 16 - 50 MHz
- Standard Frequencies¹ 19.2; 20; 25; 38.4; 40 and 50MHz

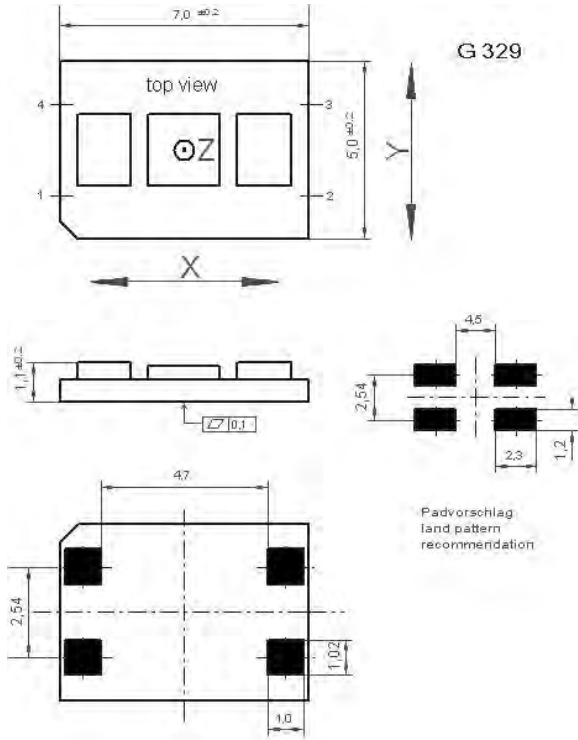
Applications

- Vibration Environment
- Portable Equipment
- Land Mobile Radio
- Test & Measurement
- Global Navigation Satellite Systems (GNSS)
- Wireless Communication

Performance Specifications

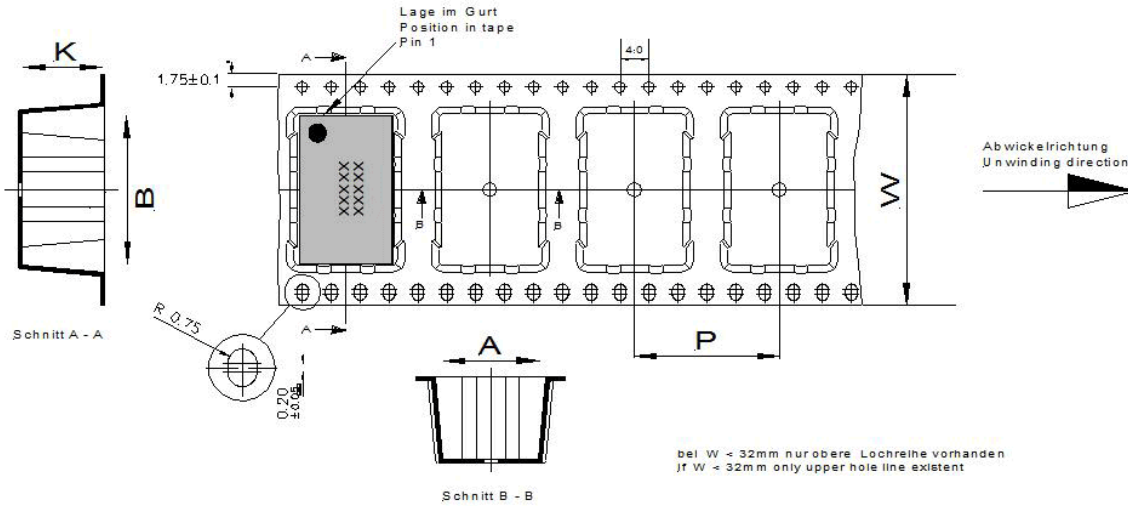
| Parameter | Frequency Stabilities ¹ | | | | Condition | |
|---|------------------------------------|---|--------------|--|--|----------------------|
| | Min | Typ | Max | Units | | |
| vs. operating temperature range (referenced to (dfmax+dfmin)/2) | -0.8 -1.0 | | +0.8 +1.0 | ppm | -20 to +70°C -40 to +85°C | Options ² |
| Initial tolerance | -1.0 | | +1.0 | ppm | at time of shipment, nominal EFC | |
| vs. supply voltage change | -0.2 | | +0.2 | ppm | V _s ±5% static | |
| vs. load change | -0.2 | | +0.2 | ppm | Load ±10% static | |
| vs. aging / 10 Years | -5.0 | | +5.0 | ppm | | |
| Phase Noise ³ | | | | | | |
| Phase Noise ³ | | -90 -122 -143 -151 -155 -156 | | dBc/Hz dBc/Hz dBc/Hz dBc/Hz dBc/Hz dBc/Hz | 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz 1 MHz | @ 20MHz |
| G-Sensitivity | | | 0.2 | ppb/g | | |

Outline Drawing / Enclosure



| Pin Connections | |
|---------------------------------|--|
| 1 | V _c (Voltage Control) / N.C. (Not connected) / Enable |
| 2 | Ground (GND) |
| 3 | RF-Output |
| 4 | V _s (Supply Voltage) |
| Enable (Option ²): | |
| Pin 1 | Pin 3 |
| High | Data |
| Low | High Tristate |
| Open | Data |
| Package Codes: 705 | |
| Type | Height |
| G329 | 1.1mm |
| Marking: | |
| WWYY F (DC Crystal + Frequency) | |
| AYYWW (Vectron Oscillator DC) | |

Standard Shipping Method



| Tape Width W (mm) | Quantity per meter | Quantity per reel | P [mm] | A [mm] | B [mm] | K [mm] |
|-------------------|--------------------|-------------------|--------|--------|--------|--------|
| 16 | 125 | 750 | 8 | 5.4 | 7.4 | 2.7 |