

7311S

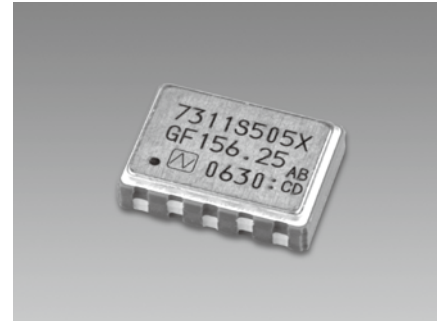
Simple Packaged Crystal Oscillator (SPXO)

■ Main Application

For SONET-, SDH-, and GbEthernet-related equipment

■ Features

- Differential Output SPXO
- Low power supply voltage (+3.3 V)
- Output Specification : LVPECL
- Low phase jitter : Max. 1ps



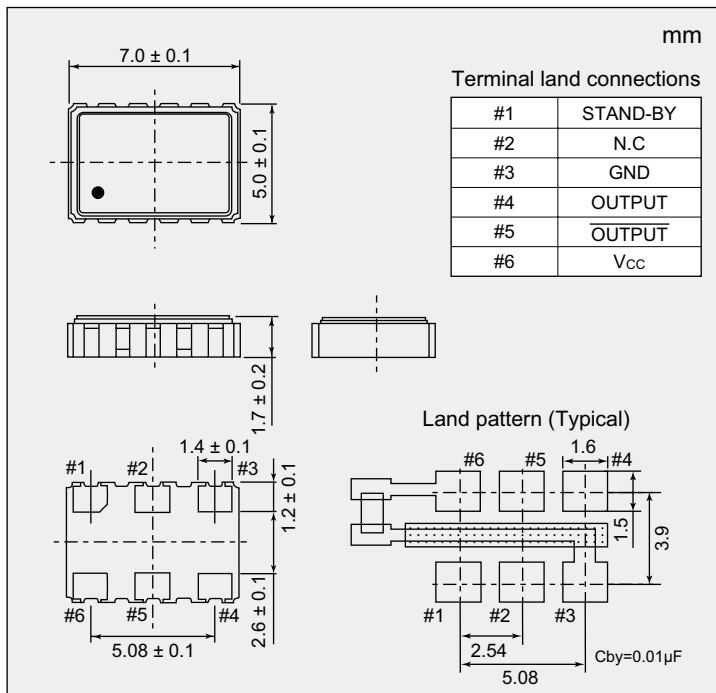
Pb
Free

RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

■ Specifications

| Model | | 7311S | | | | |
|---------------------------------------|-----------------------|--------------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|
| Item | Classification | DF-255R | DF-505X | DF-104X | DF-505P | DF-104P |
| Nominal Frequency Range (MHz) | | 62.5 to 220 | | | | |
| Supply Voltage [V _{CC}] (V) | | +3.3 ± 10 % | | | | |
| Load Resistance (Ω) | | 50 (to V _{CC} –2.0 V) | | | | |
| Current Consumption | During Operation (mA) | Max. 90 (Typ. 60) | | | | |
| | During Standby (μA) | Max. 30 | | | | |
| Output Specification | | LVPECL (Complementary) | | | | |
| Operating Temperature Range (°C) | | 0 to +70 | 0 to +85 | | –40 to +85 | |
| Storage Temperature Range (°C) | | –55 to +125 | | | | |
| Frequency Tolerance | | Max. ±25×10 ^{–6} | Max. ±50 ×10 ^{–6} | Max. ±100 ×10 ^{–6} | Max. ±50 ×10 ^{–6} | Max. ±100 ×10 ^{–6} |
| Symmetry (%) | | 45 to 55 (at 50% Waveform) | | | | |
| Phase Jitter [RMS] (ps) | | Max. 1 (12 kHz to 20 MHz) | | | | |
| Stand-by function [Three-state] | | Available | | | | |
| Specification Number | | NSA3344A | NSA3345A | NSA3346A | NSA3345G | NSA3346G |

■ Dimensions



■ Standby Function Table (Three-state)

| #1 Input | #4 and #5 output |
|---|-----------------------|
| Level H (V _{IH} ≥ 0.7 V _{CC}) or OPEN | Oscillation output ON |
| Level L (V _{IL} ≤ 0.3 V _{CC}) | High impedance |

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.