



Crystal Bridge to the Future

## Voltage-Controlled Crystal Oscillator (VCXO) 7300 Series

### ISDN- and SDH-related equipment

- Both TTL and C-MOS IC are directly driven.
- A surface-mount crystal oscillator.
- Complies with the RoHS Directive.



**RoHS Compliant**  
Directive 2002/95/EC

| Item                              | Model                                                   | 7314A               |                                                          |           |                                                |           |        |
|-----------------------------------|---------------------------------------------------------|---------------------|----------------------------------------------------------|-----------|------------------------------------------------|-----------|--------|
|                                   | Classification                                          | See *1 shown below. |                                                          |           |                                                |           |        |
|                                   |                                                         | SV71-A              | SV71-E                                                   | SV81-A    | SV81-E                                         | SV81-D    | SV81-F |
| Nominal frequency range [f] (MHz) | 2 to 52                                                 |                     |                                                          |           |                                                |           |        |
| Power supply voltage [VCC] (V)    | +5 ± 5 %                                                |                     |                                                          |           | +3.3 ± 5 %                                     |           |        |
| Current consumption (mA)          | Max. 30                                                 |                     |                                                          |           | Max. 20                                        |           |        |
| Output level                      | TTL level                                               |                     | C-MOS level                                              |           |                                                |           |        |
| Duty cycle (%)                    | 45 to 55 (< 25 MHz),<br>40 to 60 (≥ 25 MHz)<br>(+1.4 V) |                     | 45 to 55 (< 25 MHz),<br>40 to 60 (≥ 25 MHz)<br>(1/2 VCC) |           |                                                |           |        |
| Load                              | N-TTL2                                                  |                     | 15 pF                                                    |           |                                                |           |        |
| Operating temperature range (°C)  | -10 to +70                                              |                     |                                                          |           |                                                |           |        |
| Frequency stability               | Max. ±40 × 10 <sup>-6</sup>                             |                     |                                                          |           |                                                |           |        |
| Frequency control characteristic  | Min. ±100 × 10 <sup>-6</sup><br>/ +2.5 ± 2.0 V          |                     |                                                          |           | Min. ±70 × 10 <sup>-6</sup><br>/ +1.65 ± 1.5 V |           |        |
| Control polarity                  | Positive                                                |                     |                                                          |           |                                                |           |        |
| Standby function                  | None                                                    | Available           | None                                                     | Available | None                                           | Available |        |

14A

mm

| PAD No. | Connection     |
|---------|----------------|
| #1      | VCON           |
| #2      | NC or STAND-BY |
| #3      | GND            |
| #4      | OUTPUT         |
| #5      | NC             |
| #6      | VCC            |

Reference land pattern

●GND THROUGH HOLE

\*1

| Nominal frequency (MHz) | Classification |
|-------------------------|----------------|
| $2 \leq f < 25$         | G              |
| $25 \leq f \leq 52$     | A              |

| Model Name and Classification | Frequency (MHz)     | Ordering Code |             |
|-------------------------------|---------------------|---------------|-------------|
| 7314A-GSV71-A                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289A |
| 7314A-GSV71-E                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289B |
| 7314A-ASV71-A                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289E |
| 7314A-ASV71-E                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289F |
| 7314A-GSV81-A                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289C |
| 7314A-GSV81-E                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289D |
| 7314A-ASV81-A                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289G |
| 7314A-ASV81-E                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289H |
| 7314A-GSV81-D                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289J |
| 7314A-GSV81-F                 | $2 \leq f < 25$     | 7314A-[       | ]M-NSA3289K |
| 7314A-ASV81-D                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289L |
| 7314A-ASV81-F                 | $25 \leq f \leq 52$ | 7314A-[       | ]M-NSA3289M |

Specify a frequency in the square brackets.  
Specify the frequency in seven digits (the decimal point is not included).  
Omit zeros after the decimal point.