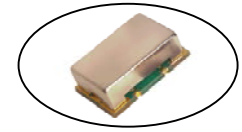
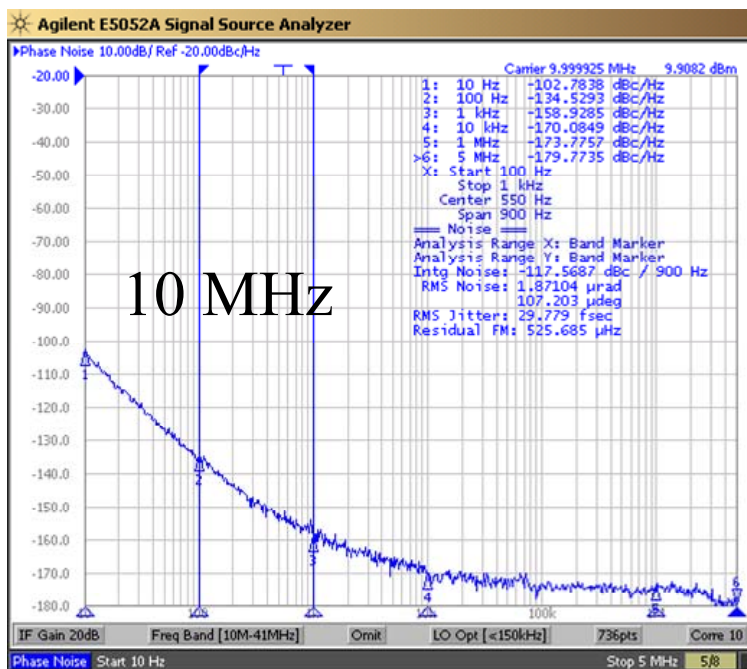


CVSS-945 Model 9×14 mm SMD, 5.0V, SineWave



| | |
|---------------------------------|---|
| Frequency Range: | 10 MHz to 125 MHz |
| Temperature Range: | 0°C to 70°C |
| (Option X) | -40°C to 85°C |
| Storage: | -45°C to 90°C |
| Input Voltage: | 5.0V ± 0.5V |
| Control Voltage: | 2.5V ± 2.5V |
| Settability At Nominal: | 2.5V ± 0.5V |
| Tuning Sensitivity (Kv): | +25 ppm/V Typical (Positive Slope) |
| Input Current: | 35mA Max |
| Output: | True SineWave |
| Pullability APR: | ±20ppm Min |
| Linearity: | ±10% Max |
| Output Power: | +5 dBm Min, +7 dBm Typical |
| Start-up time: | 2ms Typical, 5ms Max |
| Load: | 50 Ω |
| 2nd Harmonic: | -25 dBc Typical |
| Sub-harmonics: | None |
| Modulation BW: | >10kHz @ -3dB |
| Phase Noise Typical: | |
| (@100MHz) | |
| 10Hz | -85 dBc/Hz |
| 100Hz | -120 dBc/Hz |
| 1kHz | -145 dBc/Hz |
| 10kHz | -168 dBc/Hz |
| 100kHz | -175 dBc/Hz |
| 1MHz | -175 dBc/Hz |
| Aging: | <3ppm 1 st year, <1ppm every year thereafter |

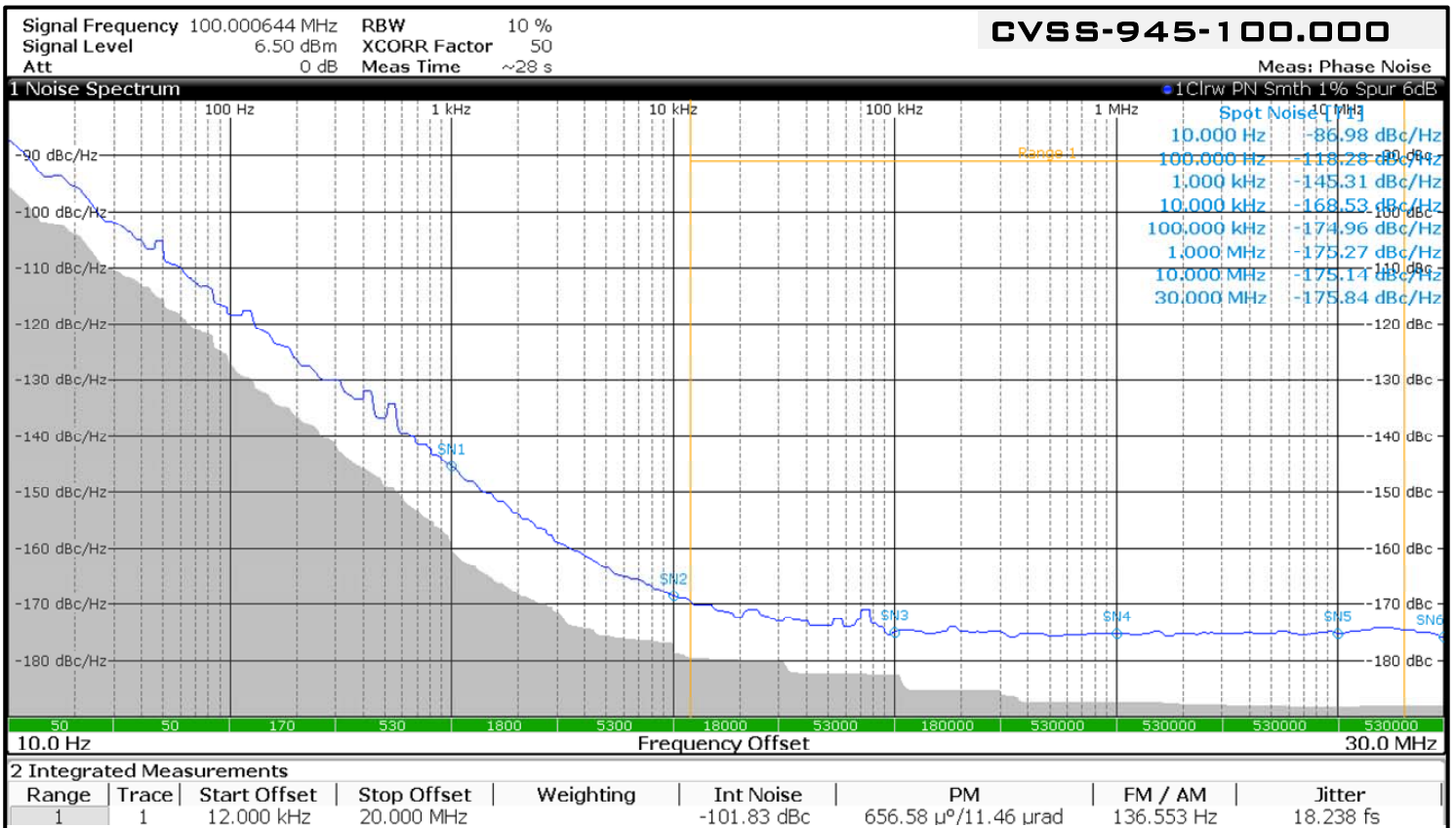
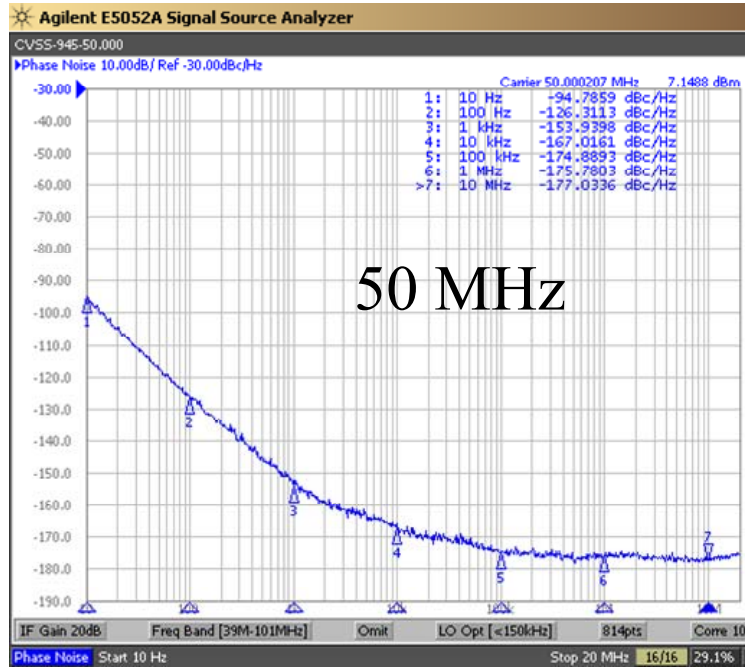


| Absolute Maximum Ratings | | |
|--------------------------|--------|------|
| Parameter | Rating | Unit |
| Input Supply Voltage | +6.0 | V |
| Input Control Voltage | +10.0 | V |

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Rev: R
Date: 23-Jun-2020
Page 1 of 3

CVSS-945 Model
9x14 mm SMD, 5.0V, SineWave



Rev: R
Date: 23-Jun-2020
Page 2 of 3

Ultra-Low Phase Noise SineWave VCXO

CVSS-945 Model
9×14 mm SMD, 5.0V, SineWave

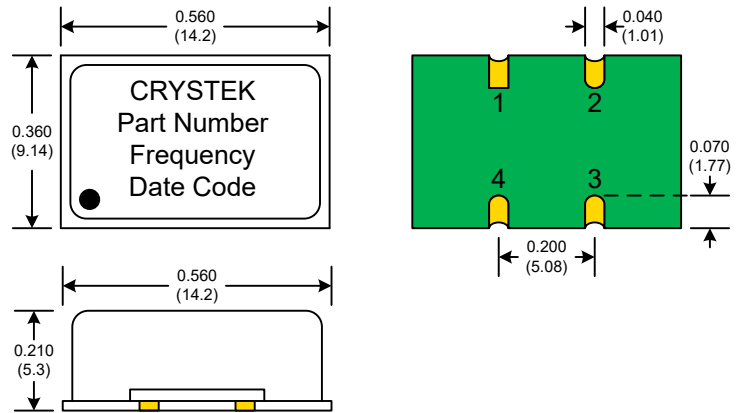
Crystek Part Number Guide

CVSS-945 X-125.000

#1 #2 #3 #4

#1 Crystek 9×14 SMD SineWave VCXO
#2 Model 945 = Ultra Low Noise 5.0V
#3 Temp. Range: Blank = 0/70°C, X = -40/85°C
#4 Frequency in MHz: 3 or 6 decimal places

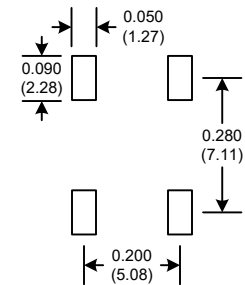
Example:
CVSS-945X-125.000 = 5.0V, -40/85°C, 125.000 MHz



PAD FINISH: Immersion Gold (ENIG); 5 micro inches maximum

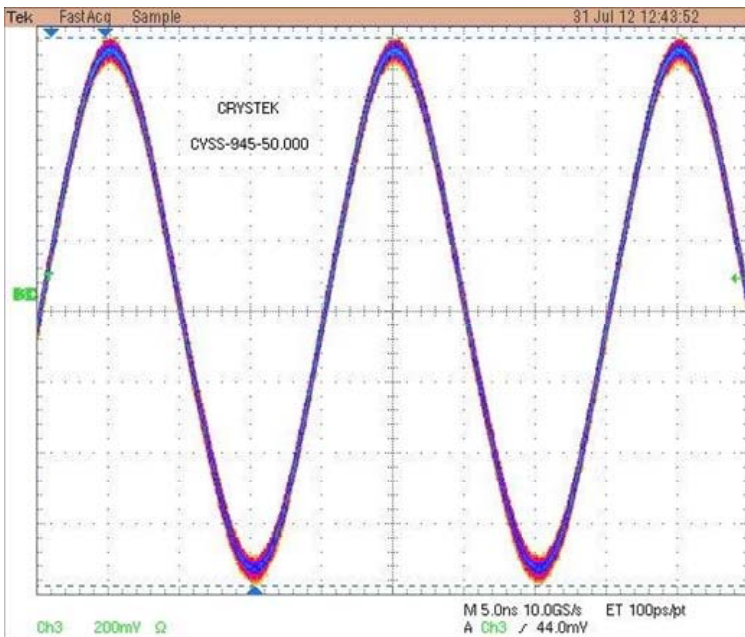
SUGGESTED PAD LAYOUT

| Pad | Connection |
|-----|------------|
| 1 | Volt Cont. |
| 2 | GND |
| 3 | OUT |
| 4 | Vdd |



Standard Frequencies MHz

10.000
50.000
80.000
100.000
122.880
125.000



RECOMMENDED REFLOW SOLDERING PROFILE 900034 (See App Note listed on website)

<http://www.crystek.com/specification/reflow/900034.pdf>

Mechanical:

Shock: MIL-STD-883, Method 2002, Condition B
Solderability: MIL-STD-883, Method 2003
Vibration: MIL-STD-883, Method 2007, Condition A
Solvent Resistance: MIL-STD-202, Method 215
Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition I or J

Environmental:

Thermal Shock: MIL-STD-883, Method 1011, Condition A
Moisture Resistance: MIL-STD-883, Method 1004

Packaging:

Tape/Reel: 100ea, 250ea, 500ea 24mm Tape

Rev: R

Date: 23-Jun-2020

Page 3 of 3