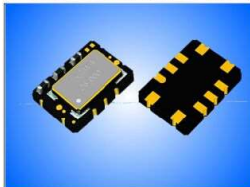


TCVXO UNIT WITH CLIPPED SINE WAVE / HCMOS SMD 7.0x5.0mm CERAMIC SEAM SEAL PACKAGE.

PRODUCT FEATURES

- Small dimensions 7.0x5.0x1.4 with 10 solder pads.
- Tight stabilities over temperature range.
- Voltage control function allows compensation of tolerance.
- RoHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

PRODUCT PHOTO (NOT IN SCALE)



APPLICATIONS

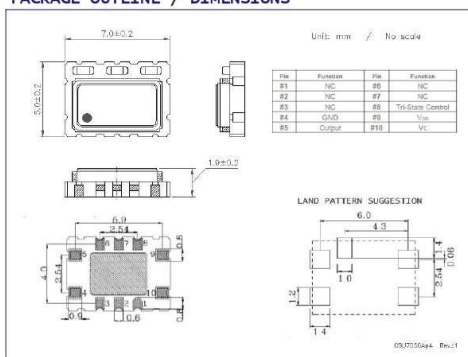
- WiMAX / WLAN / Ethernet
- Telecommunication
- Mobil applications
- Base stations

PRODUCT SPECIFICATIONS

PARAMETER	SUPPLY VOLTAGE 3.3V	REMARKS
Frequency range	10 ~ 52MHz	--
Frequency tolerance	±1.0ppm	Initial tol. @+25°C
Frequency stability	±0.1ppm; ±0.25ppm; 0.28ppm; ±0.5ppm; ±1ppm	See note below table
Operating temperature range	-10 to +70°C / -30 to +85°C / -40 to +85°C	In combination to above stabilities.
Aging per year	±1.0ppm	@+25°C
Control voltage range Vc	0.5 ~ 2.5V _{DC}	Voltage on pin 1
Frequency pulling range	±5.0ppm	Over control voltage
Output waveform	HCMOS or Clipped Sinewave	--
Output load	15pF; 10kΩ/10pF	--
Output voltage level	0.33/2.97V; 0.8Vpp	--
Phase noise (example 19.2MHz)	-120dBc/Hz / -140dBc/Hz / -148dBc/Hz	@100Hz / @1kHz / @10kHz
Phase jitter RMS	<1ps	12kHz ≤ Fj ≤ 20MHz
Supply current	3.5mA; 6mA	--

Note: Frequency stability is the frequency deviation over temperature range in reference to +25°C

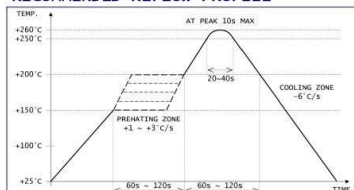
PACKAGE OUTLINE / DIMENSIONS



PACKAGING INFORMATION

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 12mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

RECOMMENDED REFLOW PROFILE



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[SIT5001AI-2E-33N0-24.000000x](#) [SIT1566AC-JV-18E-32.768E](#) [AST3TDATAACJ5-10.0000MHz](#) [AST3TDATAACJ5-20.0000MHz](#)
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