

VCO Data Sheet: VCO2026A
Application: Infrastructure VCO

1.0 DESCRIPTION AND APPLICATION

Single band voltage-controlled oscillator

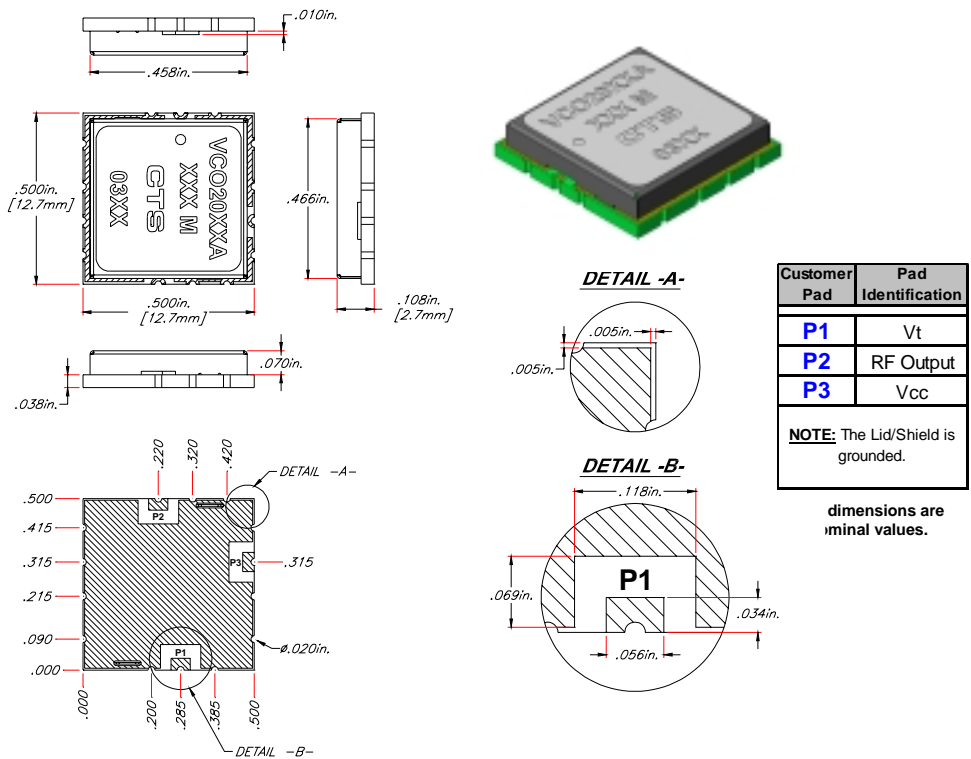
2.0 ELECTRICAL CHARACTERISTICS

	<u>Specification</u>	<u>Min</u>	<u>Typ</u>	<u>Max</u>	<u>Units</u>
2.1	Supply Voltage	4.75	5.00	5.25	V DC
2.2	Current Drain...			32	mA
2.3	Frequency...	2862		3065	MHz
2.4	Operating Temperature	-30		85	deg C
2.5	Tuning voltage range	1.0		4.5	V
2.6	Tuning sensitivity		100		MHz/V
2.7	Power output (RF amplitude)...	-3	0	3	dBm
2.8	Phase noise @..				
2.8.1	1 kHz offset			-70	dBc/Hz
2.8.2	10 kHz offset			-90	dBc/Hz
2.8.3	100 kHz offset			-110	dBc/Hz
2.8.4	1 MHz offset			-130	dBc/Hz
2.9	Harmonics			-10	dBc
2.10	Pushing figure (5.0V +/- .25V)	-10		10	MHz/V
2.11	Pulling figure (VSWR =1.67:1)	-10		10	MHz
2.12	Spurious response			-65	dBc

3.0 MECHANICAL CHARACTERISTICS

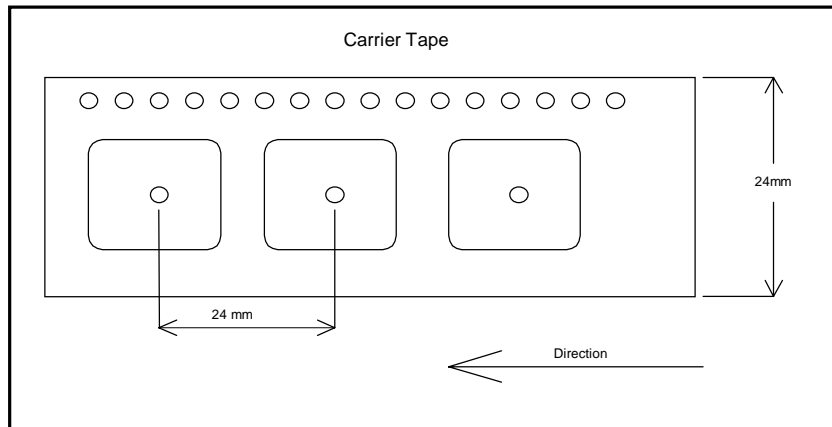
3.1 Pkg. size is .500" x .500" x .130" (max.)

VCO20XXA Mechanical Layout



3.2 Shipping method - Tape and Reel (Nominal Dimensions Drawing Below)

3.2.1 Tape width 24 mm, pitch 24 mm, as per EIA 481-2, 1000 units per reel max



4.0 STANDARD ENVIRONMENTAL LIMITS

This product is capable of operating within the following environmental conditions:

4.1 Operating Temperature	-40 to +85 °C.
4.2 Storage Temperature	-40 to +85 °C.
4.3 Humidity	95% Relative humidity max @ 40 °C.
4.4 Atmospheric Pressure	730 to 780 mm Hg.