



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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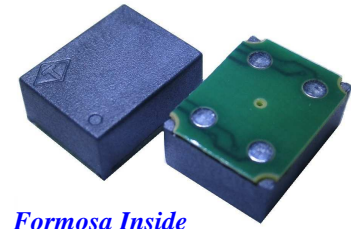


NN-Type

9.7 x 7.5 x 4.1 mm "Formosa" Oven Controlled Crystal Oscillator

FEATURES

- Taitien's patented "Formosa" ASIC technology
- Dimension 9.7 x 7.5 mm, miniaturized 4-Pad SMD package
- Low Power Consumption.
- ± 20 ppb stability over -40 to 85°C
- Stratum 3 (Overall ± 4.6 ppm including 20 years aging)



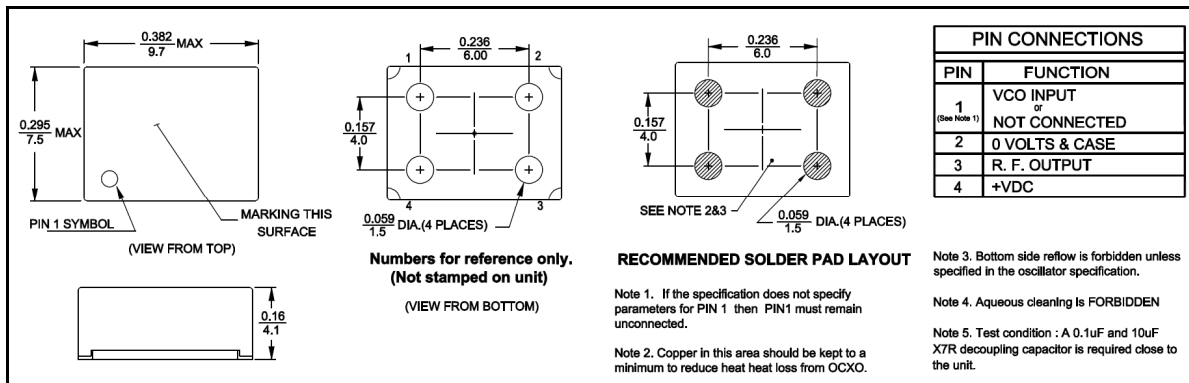
Formosa Inside

RoHS Compliant

TYPICAL APPLICATIONS

- Small Cell, Portable Telecommunication Device
- Test and Instrumentation
- Synthesizer, Digital switch, Reference Timing Circuit
- Packet Timing Protocol (e.g. IEEE-1588)

DIMENSION



ELECTRICAL SPECIFICATION

Parameter	Min.	Typ.	Max.	Unit	Test Condition & Notes
Output Frequency	10		40	MHz	Available frequency range is from 10MHz to 40MHz. Standard Frequencies : 10, 12.8, 19.2, 20, 25 and 30.72MHz.
Wave Form		Rectangular Clipped Sine			Please contact us for detail information
Level					
"1"Level	2.4			V	
"0"Level					
Duty cycle	45	50	55	%	@+1.65 V
	0.8			V _{P-P}	
Load(Rectangular/Clipped Sine)	15pF / 10Kohm//10pF				
Spurious			-60	dBc	
Frequency Stability Ambient	-20		+20	ppb	-40 °C to +85 °C, referenced to (F _{max} + F _{min})/2. Refer to Table : Freq.Stability vs Temp. Range.
Aging					
Daily	-3.0		+3.0	ppb	after 30 days continues operation
Yearly	-0.6		+0.6	ppm	
10 years	-3.0		+3.0	ppm	
Voltage	-5		+5	ppb	±5% Change
Warm-up	-0.1		+0.1	ppm	In 5 minutes @ +25 °C, referenced to 1 hour
Phase Noise (20MHz)		-98	-92	dBc/Hz	@10Hz
		-126	-120		@100Hz
		-145	-140		@1KHz
		-152	-150		@10KHz
Electrical Frequency Adjustment					
Range	5.0		-5.0	ppm	VCO @ 0V VCO @ 3.3V
Control	0	1.65	3.3	V	
Slope		Positive			
Input Impedance	100			Kohm	
Input Power Voltage	3.135	3.3	3.465	V	5.0V Input voltage is available. Please contact us for detail information.
Current			350	mA	@ turn on
Steady state		0.3	0.4	W	@ +25 °C

FREQ. STABILITY vs. TEMP. RANGE

ppb Temp. (°C)	±5	±10	±20	±30	±50
-20 ~ +70	△	○	○	○	○
-40 ~ +85	X	△	○	○	○

O: Available △:Conditional X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.