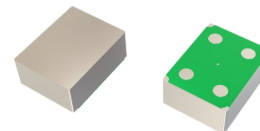


9.7 x7.5mm Oven Controlled Crystal Oscillator

Feature

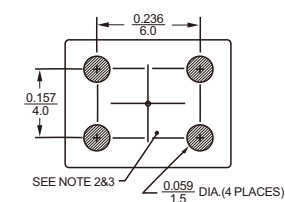
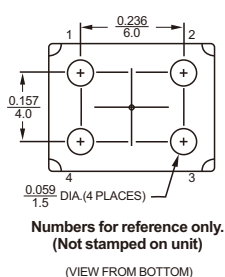
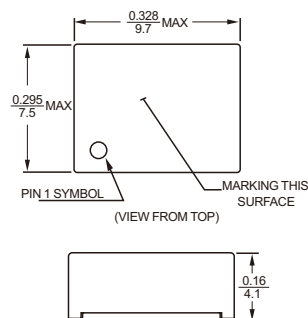
- Dimension 9.7 x 7.5 x 4.1mm, miniaturized 4-Pad SMD package
- ± 20 ppb stability over -40 to +85°C
- Stratum 3 (Overall ± 4.6 ppm including 20 years aging)
- Low power consumption and high reliability



Electrical Specifications

Parameter		Min.	Type	Max.	Unit
OUTPUT (PIN = "R.F. OUTPUT")					
Frequency		10		40	MHz
Output Level:	Output High	2.4			V
	Output Low			0.4	V
Waveform:		Rectangular/ Clipped Sine			
Load(Rectangular/ Clipped sine)		15pF / 10K ohm//10pF			pF
Duty(Rectangular)		45	50	55	%
Frequency stability					
Frequency stability	Ambient (-20~+70°C / -40~+85°C)	±5, ±10,±20, ±30, ±50			ppb
	Daily	-3.0		+3.0	ppb
	Yearly	-0.6		+0.6	ppm
	10 Years	-3.0		+3.0	ppm
	Voltage(±5% change)	-5.0		+5.0	ppb
	Load(±5% change)	-5.0		+5.0	ppb
	Warm-up	-100		+100	ppb
Phase Noise	10Hz		-98	-92	dBc/Hz
	100Hz		-126	-120	
	1KHz		-145	-140	
	10KHz		-152	-150	
ELECTRICAL FREQUENCY ADJUSTMENT (PIN = "VCO INPUT")					
Tuning Range	VCO @ 0 V			-5.0	ppm
	VCO @ 3.3V	+5.0			ppm
Control Voltage		0	1.65	3.3	V
INPUT POWER (PIN = "+VDC")					
Voltage		3.135	3.3	3.465	V
Current				350	mA
Steady State			0.3	0.4	W
Storage Temperature		-55		+125	°C

Dimension(mm)



RECOMMENDED SOLDER PAD LAYOUT

Note 1. If the specification does not specify parameters for PIN 1 then PIN1 must remain unconnected.

Note 2. Copper in this area should be kept to a minimum to reduce heat loss from OCXO.

PIN CONNECTIONS	
PIN	FUNCTION
1 (See Note 1)	VCO INPUT or NOT CONNECTED
2	0 VOLTS & CASE
3	R. F. OUTPUT
4	+VDC

Note 3. Bottom side reflow is forbidden unless specified in the oscillator specification.

Note 4. Aqueous cleaning is FORBIDDEN

Note 5. Test condition: A 0.1uF and 10uF X7R decoupling capacitor is required close to the unit.