

**Features and Benefits**

25.6 MHz Clock TCXO  
 5 x 7mm SMD 4-pad  
 -40°C to +85°C  
 +3.3V supply

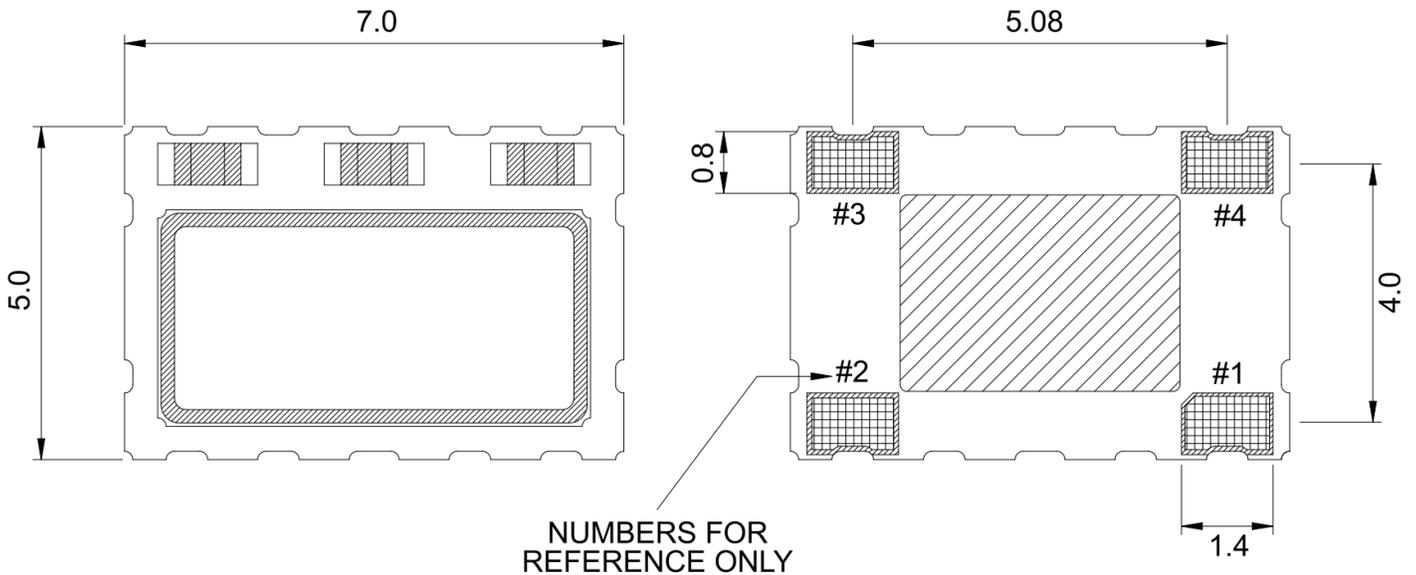
**Typical Applications**

Beidou Navigation Reference Oscillator  
 SATCOM SYSTEMS ( ON THE MOVE ; MOBILE )  
 Mobile Radio

**Description**

The TCXO design technology offers a new generation IC compensation with better phase noise and lower ultimate stability over operating temperature.

**Mechanical Drawing & Pin Connections**



PIN NO.	CONNECTIONS
1	No Connection
2	Ground
3	Output
4	V <sub>DD</sub>

## Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	F <sub>nom</sub>		25.600000			MHz	
CMOS	Logic Level 1		2.97			V	
	Logic Level 0				0.33	V	
	Output Load	Operating Range			15	pF	
	Start Time				2.0	ms	Milli-seconds
<b>Power Supply</b>							
Voltage			3.135	3.3	3.465	V	
		Supply Current under load			6.0	mA	
<b>Frequency Stability</b>							
Versus temperature			-500.0		+500.0	ppb	
Tolerance at 25°C		1 hr after 2 times reflow	-2000.0		+2000.0	ppb	After two reflows
Versus 5% change in supply voltage			-100.0		+100.0	ppb	
Versus 10% change in load			-100.0		+100.0	ppb	
Aging per year		First year @ 25°C	-1000.0		+1000.0	ppb	
SSB Phase noise (worst case) @25.6 MHz		10 Hz			-85.0	dBc/Hz	
		100 Hz			-115.0		
		1000 Hz			-135.0		
		10 KHz			-148.0		
		100 KHz			-150.0		
<b>Environmental Conditions</b>							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					
Mechanical Shock		MIL-STD-883 2002 Cond. B JESD22-B104 Cond. B, 1500G, half-sign, 0.5ms, each axis for 3 times					
Vibration Test		MIL-STD-883 2007 Cond. A JESD22-B103 Cond. 1, 10~2000Hz, 1.52mm, 20G, each axis for 4 hours					
Thermal Shock		MIL-STD-883 1010 Cond. B JESD22-A104 Cond. B, -55°C, 125°C; soak time is 10 mins, with total 200 cycles					