

Features and Benefits

25.6 MHz Clock TCXO
 5 x 7mm SMD 10-pad
 -40°C to +85°C
 +3.3V supply

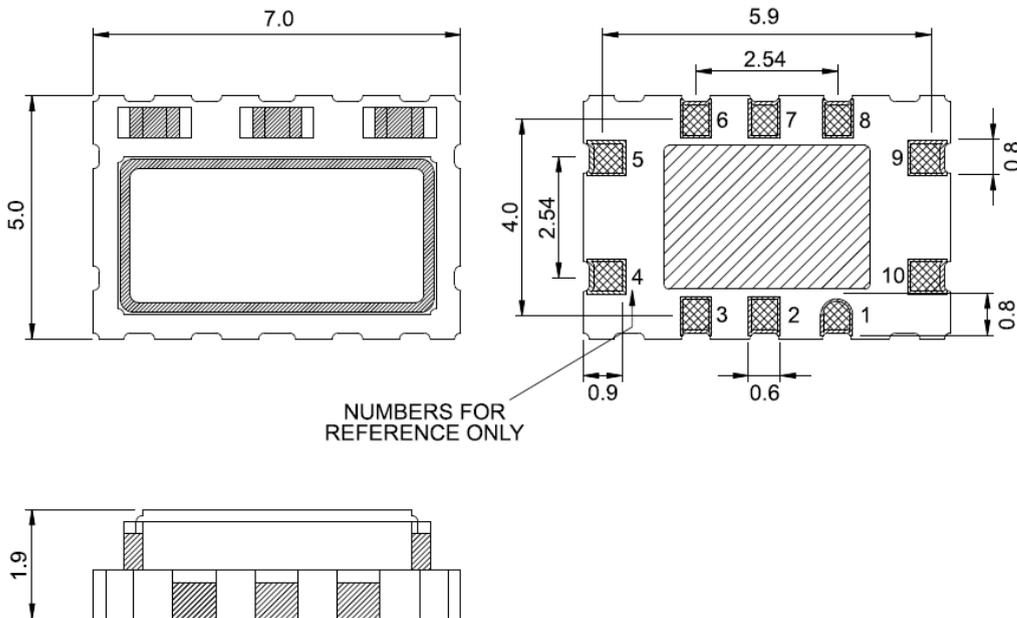
Typical Applications

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	No Connection
3	No Connection
4	Ground
5	Output
6	No Connection
7	No Connection
8	Tri-State Control
9	V _{DD}
10	No Connection

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	F _{nom}		25.600000			MHz	
CMOS	Output Level		2.97		0.33	Vpk-pk	
	Output Load	Operating Range			15	pF	
	Start Time				2.0	ms	Milli-seconds
Power Supply							
Voltage			3.135	3.3	3.465	V	
		Supply Current under load			6.0	mA	
Frequency Stability							
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		
Environmental Conditions							
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-sin, 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						