

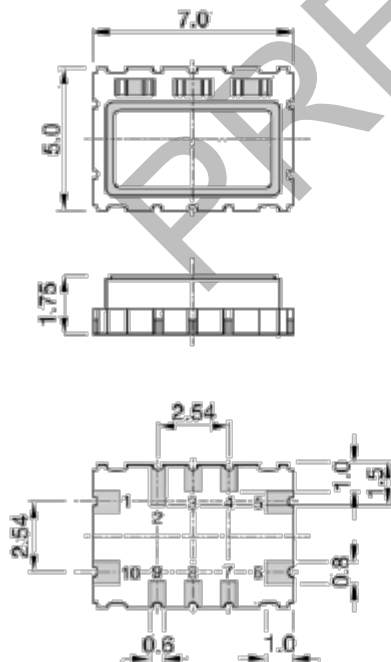
Features and Benefits

Better than +/- 500 ppb from -40°C to +85°C
With respect to $(F_{max} + F_{min}) / 2$
50.000000 MHz low noise cmos output
3.0V supply ; 8.0 mA max.

Typical Applications

Mobile SATCOM
Mobile Radio
Harsh Environments
Femto-cell

Mechanical Drawing



Pin function

- # 1 Do not connect
- # 5 GND
- # 6 Output
- # 9 Tri-state
- # 10 Vdc

Do not connect #2, #3, #4, #7, #8

Specification

TCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Operational Frequency Range	f ₀			50.000000		MHz	
CMOS		Logic High	0.9*V _{cc}			V	
		Logic Low			0.1*V _{cc}	V	
		Output Load	14.25	15.00	15.75	pF	
		Start-up Time			5.0	milli-sec	
Power Supply							
Voltage	V _{cc}		2.850	3.000	3.150	V	
Current Consumption					8.0	mA	
Frequency versus Voltage							
Pin 1: DO NOT CONNECT : Device is a CLOCK							
Frequency Stability							
Vs. Temperature		-40°C to +85°C			+/- 500	ppb	With respect to (F _{max} + F _{min})/2
Vs. at 25°C		Initial Accuracy at time of shipment			+/- 1000	ppb	
Aging							
		After 30 Days of Operation			+/- 1.00	ppm	In first year
SSB Phase Noise							
@ 50 MHz		10 Hz		-84	-80	dBc/Hz	
		100 Hz		-115	-110		
		1 KHz		-140	-135		
		10 KHz		-153	-148		
		100 KHz		-157	-152		
		1 MHz		-156	-152		