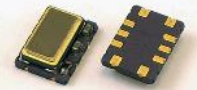


COSPAS-SARSAT BEACONS CERAMIC SMD TCXO (7.0 x 5.0 x 2.0mm)

FEATURES

- Designed for Cospas-Sarsat Beacon application
- Frequency stability $\pm 0.20\text{ppm}$
- LVCMOS or Clipped sinewave output



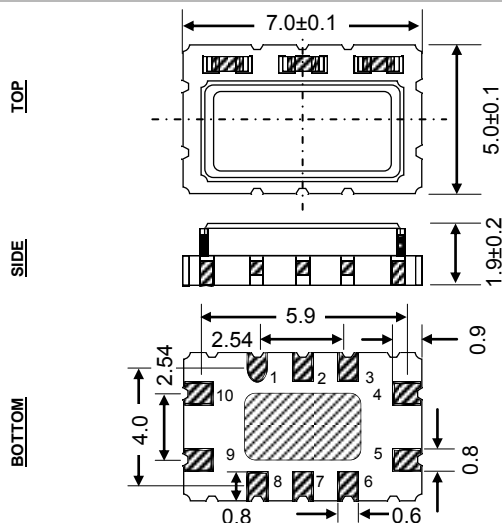
■ SPECIFICATION

MODEL		TXCS-H(x)	TXCS-P(x)
NOMINAL FREQUENCIES		10.000M, 12.688375M, 12.688656M, 12.688750M, 16.367M	
FREQUENCY TOLERANCE @ 25°C		$\pm 0.5\text{ppm max.}$	
FREQUENCY STABILITY	vs. TEMPERATURE RANGE	$\pm 0.2\text{ppm max. reference to } (F_{\text{MAX}} + F_{\text{MIN}})/2 \text{ @ } -20^\circ\text{C} \sim 55^\circ\text{C}$	
	vs. LOAD	$\pm 0.1\text{ppm max.}$	
	vs. SUPPLY VOLTAGE	$\pm 0.1\text{ppm max.}$	
	vs. ALLAN VARIANCE (tau=100ms)	$\pm 1.0\text{ppb max.}$	
OPERATING TEMPERATURE RANGE		(x) = A: $-20^\circ\text{C} \sim 55^\circ\text{C}$ or (x) = B: $-40^\circ\text{C} \sim 55^\circ\text{C}$	
STORAGE TEMPERATURE RANGE		$-55^\circ\text{C} \sim 125^\circ\text{C}$	
SUPPLY VOLTAGE $\pm 5\%$		3.3V	
SUPPLY CURRENT		6.0mA max.	
OUTPUT	LOGIC FAMILY	LVCMOS	Clipped Sine wave
	LOAD	15pF*	10K Ω //10pF*
	LEVEL	10% / 90% V _{CC}	0.8Vp-p min.
	SYMMETRY (DUTY CYCLE)	45% / 55%	-
	RISE AND FALL TIME (Tr/Tf)	8.0mS max.	-
STAND-BY VOLTAGE	ENABLE (V _{IH})	0.7 x V _{CC} min.**	
	DISABLE (V _{IL})	0.3 x V _{CC} max.	
MEAN SLOPE (df/dt)	STEADY STATE CONDITIONS	$\pm 0.7\text{ppb / minute max.}$	
	DURING AND 15MIN. AFTER VARIABLE TEMP. CONDITION	$\pm 1.7\text{ppb / minute max.}$	
RESIDUAL df FROM SLOPE		$\pm 1.0\text{ppb max.}$	
REFLOW SOLDERING		$\pm 1.0\text{ppm max.}$	
AGING	1 ST YEAR	$\pm 1.0\text{ppm max.}$	
	10 YEARS	$\pm 3.0\text{ppm max.}$	
PHASE NOISE	10Hz	-90dBc/Hz	
	100Hz	-115dBc/Hz	
	1kHz	-127dBc/Hz	
	10kHz	-137dBc/Hz	
	100kHz	-143dBc/Hz	

*To achieve an optimal frequency stability, the circuit connected to TCXO must have the correct input capacitance that is specified by the load capacitance.

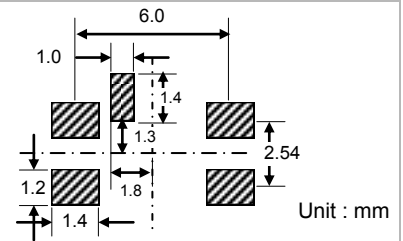
**Oscillator and compensation circuits are active when output is disabled during tri-state. The output is enabled with no connection on pin #9. Supply current is ~1mA when output is disabled.

■ PACKAGE DIMENSIONS

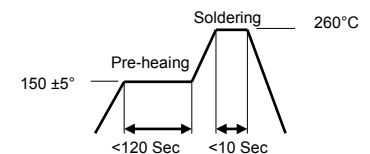


Pin Configuration	
10	NC
1,2,3,6,7	Do Not Connect
4	GND
5	RF Output
8	En/disable
9	Supply, Vcc

■ PACKAGE DIMENSIONS



■ PACKAGE DIMENSIONS



Note: Consult factory for details

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