

RSTX Series: Cospas-Sarsat Emergency Beacon TCXO

Features

- Compliant with Cospas-Sarsat emergency beacon requirements
- Medium-term stability tests performed on 100% units
- All units are serialized and shipped with individual test data
- Test data is stored for 10 years
- Output types: LVCMOS or Clipped Sine
- Temperature Ranges available: Class I or Class II
- ROHS Compliant



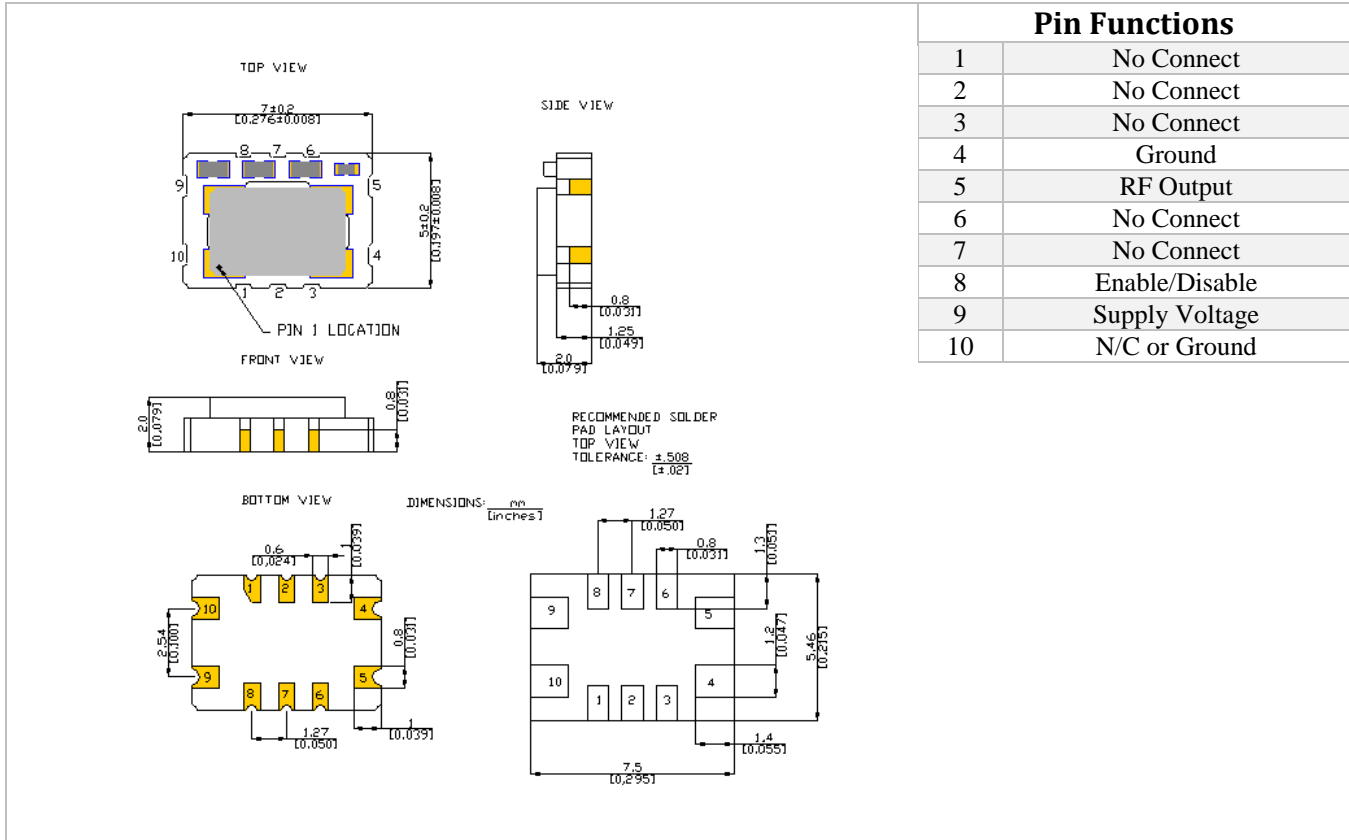
RoHS Compliance

ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
			Min.	Typ.	Max.	
Nominal Frequency	f_0		Standard SARSAT Frequencies ¹			MHz
Supply Voltage	V_{CC}		-10%	3.3	+10%	V
Supply Current	I				6	mA
Storage Temperature		Absolute maximum	-40		+85	°C
Operating Temperature	T_a	Class I	-40		+55	°C
		Class II	-20		+55	
Frequency Stability						
Initial Frequency Calibration		At V_{CC} and 25°C	-0.5		+0.5	ppm
Reflow Shift ²			-1		+1	ppm
Temperature		$f_0 = (f_{max} + f_{min})/2$	-0.2		+0.2	ppm
Supply Voltage		$V_{CC} \pm 5\%$ ³	-0.1		+0.1	ppm
Load Change		$\pm 5\%$ ⁴	-0.1		+0.1	ppm
Aging		1 year (first)	-1		+1	ppm
		10 years	-3		+3	
Allan Deviation	ADEV	$\tau = 100$ ms			1e-9	
Medium Term Stability						
Mean Slope ⁵	df/dt	Steady state conditions	-0.7		+0.7	ppb/min
		During and 15 minutes after variable temperature	-1.7		+1.7	ppb/min
Residual		Residual from slope	-2		+2	ppb

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MECHANICAL DIMENSIONS AND PIN FUNCTIONING



Environmental

Vibration	Vibration Test per IEC 60068-2-6
Shock	Mechanical Shock per IEC 60068-2-27