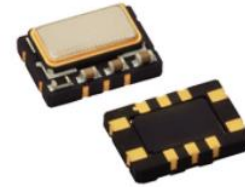




TP PRODUCT FAMILY Stratum 3 TCXO 7.0 x 5.0mm

Features

- Ultra-Small Package
- Temperature Stability ± 0.28 ppm
- Operating Temperature Range $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



❖ Specifications

Parameter		Value
FREQUENCY RANGE		10 ~ 52 MHz
SUPPLY VOLTAGE (V_{CC})		3.3 V
INPUT CURRENT		4 ~ 10 mA
FREQUENCY STABILITY	vs. TEMPERATURE	± 0.28 ppm
	vs. LOAD ($\pm 10\%$)	± 0.2 ppm
	vs. SUPPLY VOLTAGE	± 0.2 ppm
	OVERALL (Including 20 years aging)	± 4.6 ppm max
FREQUENCY TOLERANCE at 25°C		± 1.0 ppm max
OPERATING TEMPERATURE RANGE		$-40 \sim +85^{\circ}\text{C}$
STORAGE TEMPERATURE RANGE		$-40 \sim +85^{\circ}\text{C}$
CMOS OUTPUT LEVELS		$0.9 V_{CC} / 0.1 V_{CC}$
LOAD		15 pF
DUTY CICLE		45 / 55 %
RISE AND FALL TIME		5 ns
START-UP TIME		3ms typical
ENABLE / DISABLE		$0.8 V_{CC} / 0.2 V_{CC}$
INTEGRATED PHASE JITTER RMS		1.0 ps max
PHASE NOISE at 10 kHz OFFSET		-145 dBc/Hz typical

❖ Environmental

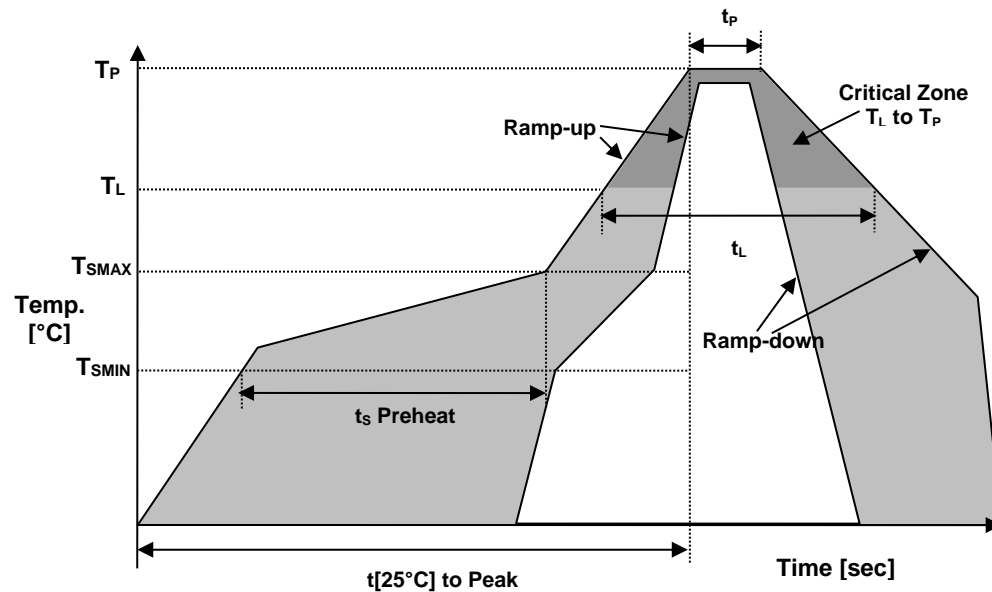
Parameter	Value
Moisture Sensitivity Level	1
RoHS	Compliant
REACH SVHC	Compliant
Halogen Free	Compliant
Termination Finish	Au

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



TP PRODUCT FAMILY

Reflow Profile



Reflow Profile (Reference IPC/JEDEC J-STD-020)		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°C
Time (T_{SMIN} to T_{SMAX})	t_s	60 – 180 sec.
Temperature	T_L	217°C
Peak Temperature	T_P	260°C
Ramp-Up Rate	R_{UP}	3°C / sec. max
Ramp-Down Rate	R_{DOWN}	6°C / sec. max
Time within 5°C of Peak Temperature	T_P	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	T_L	60 – 150 sec.

August 2017