

MINIATURE SPREAD SPECTRUM SMD OSCILLATOR (7.0 x 5.0 x 1.65mm)

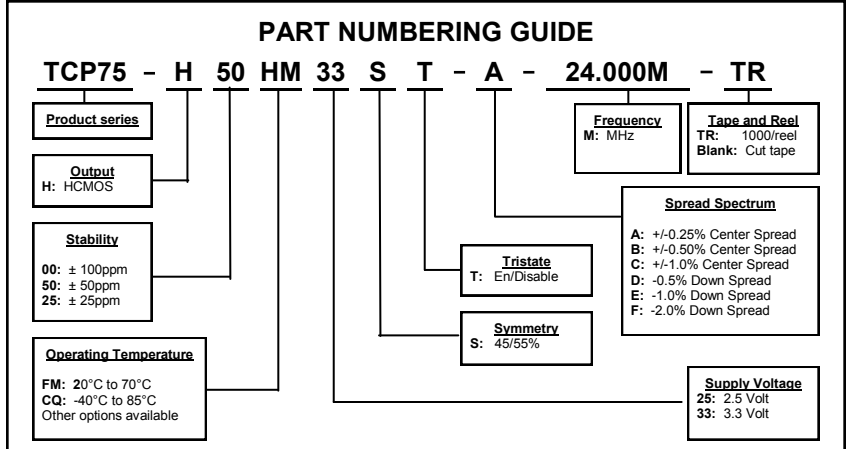
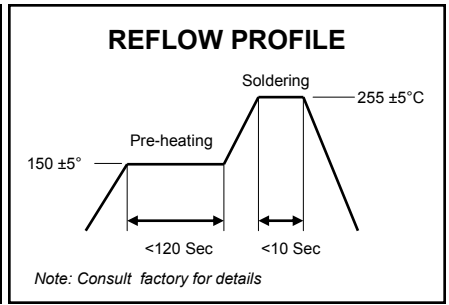
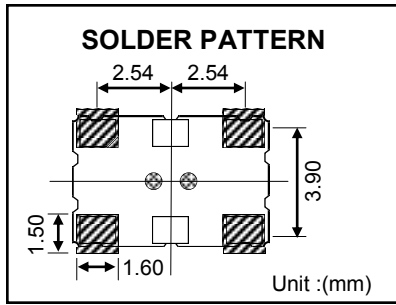
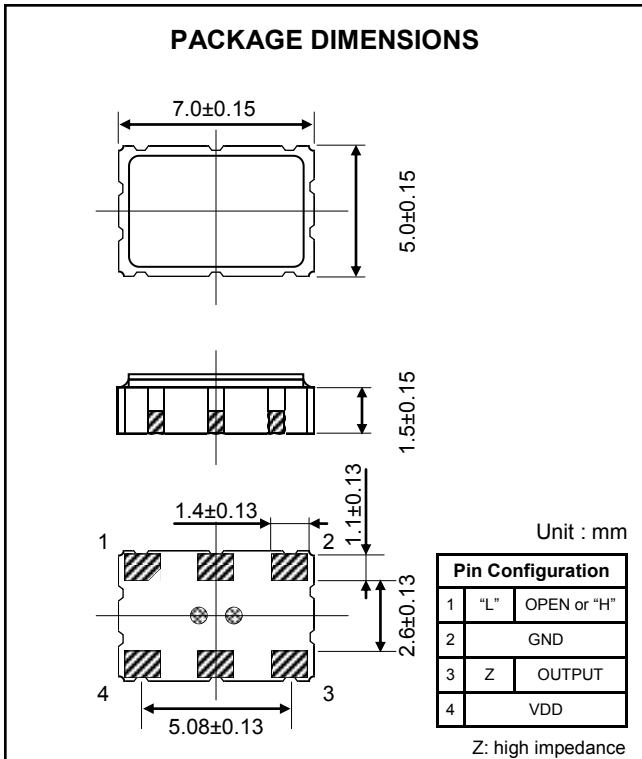
FEATURES:

- LOW EMI / EMC
- CMOS OUTPUT
- LOW VOLTAGE

RoHS
Compliant



MODEL		TCP75
OUTPUT FREQUENCY RANGE		1.0000MHz to 166.0000MHz (VDD= +2.5V) 1.0000MHz to 200.0000MHz (VDD= +3.3V)
MODULATION RATIO		Center spread: $\pm 0.125\%$ to $\pm 2\%$ (0.125 step) Down spread: -0.25% to -4.0% (0.25 step)
FREQUENCY STABILITY		± 50 ppm to ± 100 ppm
OPERATING CONDITIONS	OPERATING TEMPERATURE	-20°C to 75°C
	INPUT VOLTAGE(VDD)	+2.5V DC $\pm 10\%$ to +3.3V DC $\pm 10\%$
INPUT CURRENT		30 mA max.
STAND-BY CURRENT (Pin#1-VIL)		10 μA max.
OUTPUT (-20°C to $+75^{\circ}\text{C}$)	SYMMETRY	45% to 55% at 1/2VDD level
	RISE AND FALL TIMES	3 ns max. (10% VDD to 90% VDD level)
	"0" LEVEL	VOL : 10% VDD max
	"1" LEVEL	VOH : 90% VDD min
OUTPUT LOAD		15 pF max. (CMOS)
TRI-STATE CONTROL VOLTAGE		30% VDD max (ViL) 70% VDD min (ViH)
START-UP TIME		10 ms max
ENABLE/DISABLE PHASE DELAY TIME		10 ns max
AGING		± 5 ppm/year max. at $+25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
JITTER (CYCLE TO CYCLE)		100 ps max



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EXAMPLE(SS osc 80MHz) : Center spread $\pm 1\%$ & Down spread -2%

