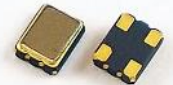
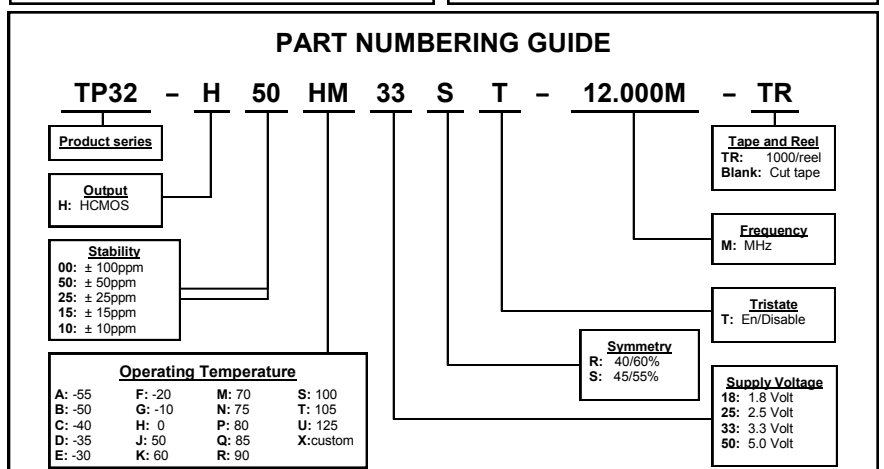
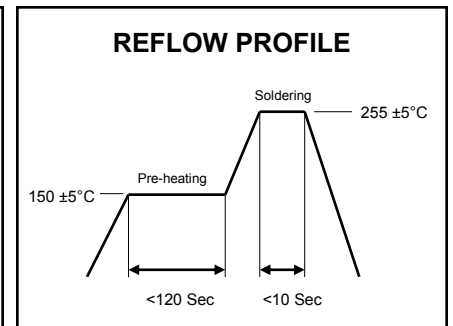
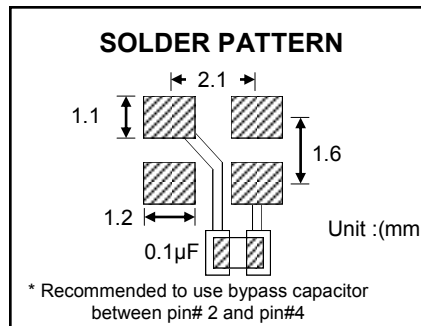
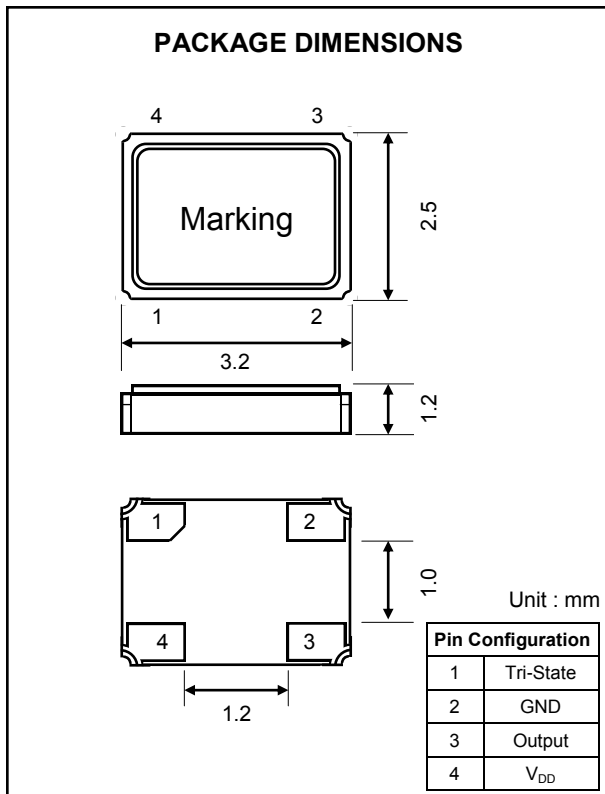


MINIATURE SMD PROGRAMMABLE OSCILLATOR (3.2 x 2.5 x 1.0mm)
FEATURES:

- CMOS PROGRAMMABLE OSCILLATOR
- ULTRA MINITURE SMD PACKAGE WITH CMOS OUTPUT
- LOW PEAK TO PEAK JITTER



MODEL	TP32		
SUPPLY VOLTAGE $\pm 10\%$	1.8V	2.5V	3.3V
FREQUENCY RANGE	1MHz ~ 100.000MHz	1MHz ~ 166MHz	1MHz ~ 200MHz
FREQUENCY STABILITY	$\pm 10\text{ppm} \sim \pm 100\text{ppm}$		
OPERATING TEMPERATURE	0°C to 70°C, Option: -40°C to 85°C other range available		
FREQ. TOLERANCE vs. VOLTAGE $\pm 10\%$	$\pm 2.0\text{ppm max.}$		
OUTPUT	CMOS, 15pF		
INPUT CURRENT: $1\text{MHz} \leq F_o < 30\text{MHz}$	6mA max.	8mA max.	10mA max.
INPUT CURRENT: $30\text{MHz} \leq F_o < 75\text{MHz}$	8mA max.	10mA max.	15mA max.
INPUT CURRENT: $75\text{MHz} \leq F_o < 133\text{MHz}$	12mA max.	15mA max.	20mA max.
INPUT CURRENT: $133\text{MHz} \leq F_o < 166\text{MHz}$	—	15mA max.	22mA max.
INPUT CURRENT: $166\text{MHz} \leq F_o < 200\text{MHz}$	—	—	25mA max.
RISE AND FALL TIME: $1\text{MHz} \leq F_o < 10\text{MHz}$ $10\text{MHz} \leq F_o$	5.0nS max. 4.0nS max.	4.0nS max. 3.0nS max.	3.0nS max. 2.0nS max.
DUTY CYCLE	40/60%, Option: 45/55%		
OUTPUT LEVEL (Voh / Vol)	90% V_{DD} / 10% V_{DD}		
START UP TIME	2.0mS max.		
RMS PERIOD JITTER	20pS max.		
STAND BY CURRENT	15uA max.		
STORAGE TEMPERATURE	-55°C to 125°C		



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