

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

FEATURES:

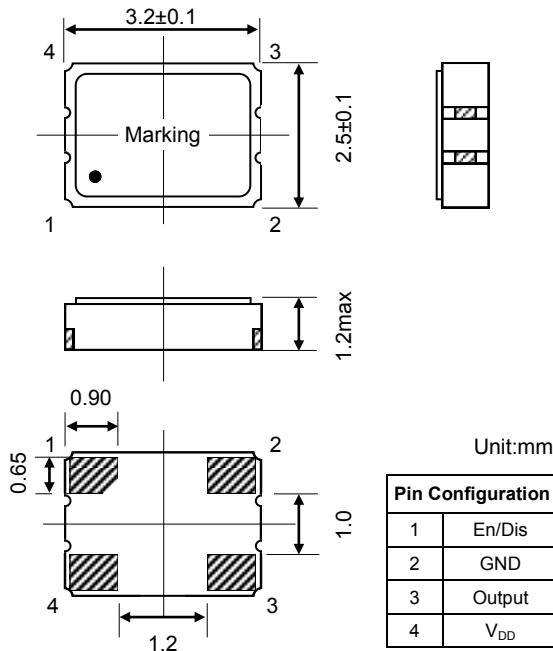
- CMOS PROGRAMMABLE OSCILLATOR
- ULTRA MINITURE SMD PACKAGE WITH CMOS OUTPUT
- LOW PEAK TO PEAK JITTER



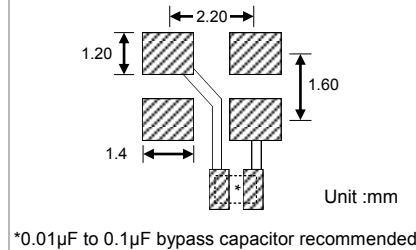
■ SPECIFICATION

FREQUENCY RANGE	1MHz ~ 100.000MHz	1MHz ~ 166MHz	1MHz ~ 200MHz
FREQUENCY STABILITY	±10ppm ~ ±100ppm		
OPERATING TEMPERATURE RANGE	STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)		
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C		
SUPPLY VOLTAGE ± 10%	1.8V _{DC}	2.5V _{DC}	3.3V _{DC}
SUPPLY CURRENT	1MHz ≤ f < 30MHz	6mA max.	8mA max.
	30MHz ≤ f < 75MHz	8mA max.	10mA max.
	75MHz ≤ f < 133MHz	12mA max.	15mA max.
	133MHz ≤ f < 166MHz	—	15mA max.
	166MHz ≤ f < 200MHz	—	—
OUTPUT	LOGIC FAMILY	HCMOS	
	LOAD	15pF	
	LEVEL LOGIC '1' (V_{OH})	0.9 x V _{DD} min.	
	LEVEL LOGIC '0' (V_{OL})	0.1 x V _{DD} max.	
	SYMMETRY(DUTY CYCLE)	STD: 40% / 60%, Option: 45% / 55%	
	RISE AND FALL TIME (Tr/Tf): 1MHz ≤ f < 10MHz f ≥ 10MHz	5.0nS max. 4.0nS max.	4.0nS max. 3.0nS max.
START-UP TIME	2.0mS max.		
STAND-BY VOLTAGE	ENABLE (V_{IH})	0.7 x V _{DD} ≤ V _{IH} ≤ V _{DD} or N/C	
	DISABLE (V_{IL})	V _{IL} ≤ 0.3 x V _{DD}	
STAND-BY CURRENT	15µA max.		
AGING @ 25°C ± 3°C	±3.0ppm / 1 st year max.		
PHASE JITTER RMS (12kHz ~ 20MHz)	20pS max.		

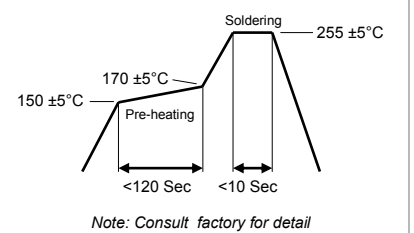
■ PACKAGE DIMENSIONS



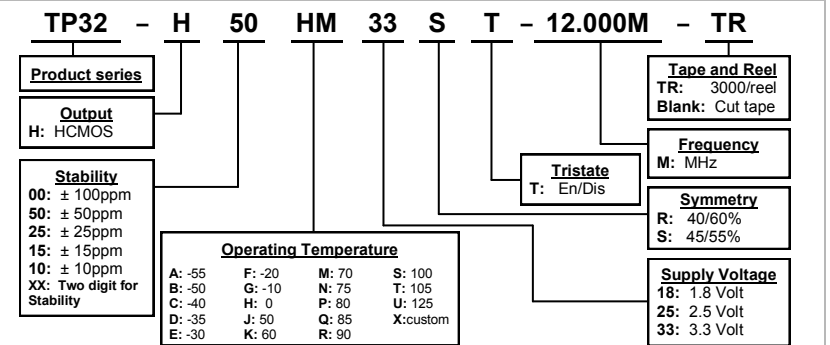
■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE



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