

MINIATURE SMD HCMOS/TTL OSCILLATOR (5.0 x 3.2 x 1.3mm)

FEATURES:

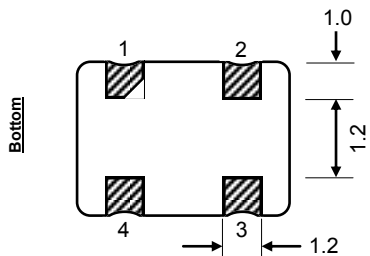
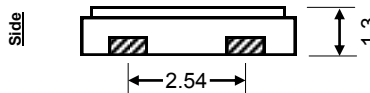
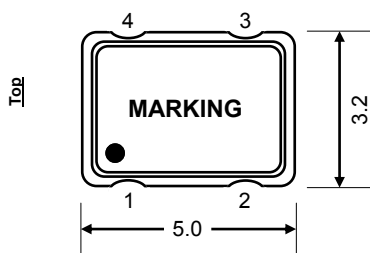
- WIDE FREQUENCY RANGE
- LOW VOLTAGE / LOW CURRENT
- LOW COST



■ SPECIFICATION

FREQUENCY RANGE	312kHz ~ 60MHz	25kHz ~ 165MHz	25kHz ~ 220MHz	25kHz ~ 160MHz
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%	1.0V _{DC}	1.8V _{DC}	2.5~3.3V _{DC}	5.0V _{DC}
SUPPLY CURRENT	4mA max.	25mA max.	40mA max.	35mA max.
OUTPUT	LOGIC FAMILY	HCMOS, TTL, CMOS/TTL		
	LOAD	15pF typ. (30pF, 50pF available)		
	LEVEL LOGIC '1' (V_{OH})	HCMOS: 0.9 x V _{DD} min. TTL: 2.4V _{DC} min.		
	LEVEL LOGIC '0' (V_{OL})	HCMOS: 0.1 x V _{DD} max. TTL: 0.4V _{DC} max.		
	SYMMETRY (DUTY CYCLE)	40% / 60% @ 1/2V _{DD} level, Option: 45% / 55%		
	RISE AND FALL TIME (Tr/Tf)	1.0nS typ. , 8.0nS max.		
STAND-BY VOLTAGE	ENABLE (ViH)	0.7 x V _{DD} ≤ ViH ≤ V _{DD} or N/C		
	DISABLE (ViL)	ViL ≤ 0.3 x V _{DD}		
ENABLE / DISABLE DELAY TIME	10mS max.			
AGING @ 25°C ± 3°C	±3.0ppm / 1 st year max.			
PHASE JITTER RMS (12kHz ~ 20MHz)	1.0pS max.			

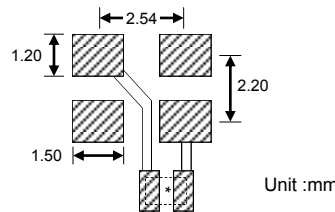
■ PACKAGE DIMENSIONS



Unit : mm

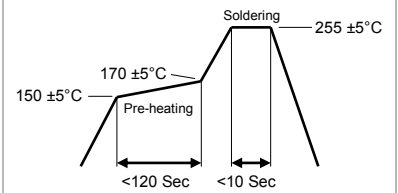
Pin Configuration	
1	En/Dis
2	GND
3	Output
4	V _{DD}

■ SOLDER PATTERN



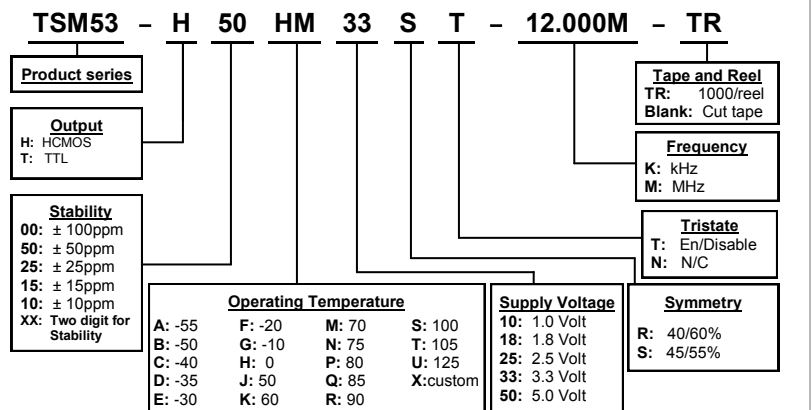
*0.01μF to 0.1μF bypass capacitor recommended

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE



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