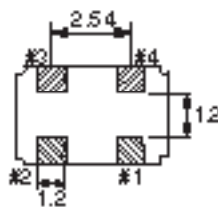
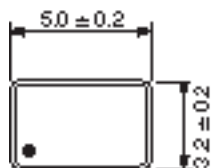


**ELECTRICAL SPECIFICATIONS**

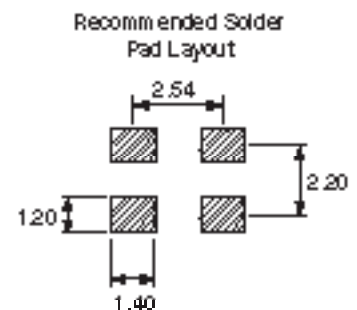
PARAMETERS	SPECIFICATIONS	UNIT
HEC PART NUMBER	HE-SMO-533-SS	
FREQUENCY RANGE	12.00 - 168.00 MHz	MHz
FREQUENCY STABILITY	±50 PPM, ±100 PPM	PPM
OPERATING TEMPERATURE	-10°C to +70°C (-40°C to +85°C optional)	°C
STORAGE TEMPERATURE	-40°C to +85°C	
CENTER SPREAD MODULATION	±0.5% / ±1.0% / ±2.0%	
DOWN SPREAD MODULATION	-1.0% / -2.0% / -4.0%	
INPUT VOLTAGE	3.3V ± 5%	V
CURRENT CONSUMPTION	12.0 ~ 28.0 MHz 13mA 28.1 ~ 80.0 MHz 15mA 80.1 ~ 168.0 MHz 30mA	mA
OUTPUT LOAD	15pF	pF
OUTPUT CURRENT	8 mA max.	mA
RISE & FALL TIME	12.0 ~ 80.0 MHz 5ns 80.1 ~ 168.0 MHz 4ns	
DUTY CYCLE	40% ± 60% max. 45%-55% typical	%
TRISTATE	Enable/Disable optional	
JITTER (CYCLE to CYCLE)	200ps max (10~19.9 MHz) 100ps max (20~168 MHz)	ps
START UP TIME	10ms	ms
OUTPUT ENABLE TIME	10ms max.	ms
OUTPUT DISABLE TIME	10ns max.	ns

**MECHANICAL DRAWING**

Pin Connections:

#1: E/D  
#2: GND  
#3: Output  
#4: VDD

Unit:mm



Recommended soldering temperature: 260°C, 10 times maximum