

### SERIES COM1

#### FEATURES

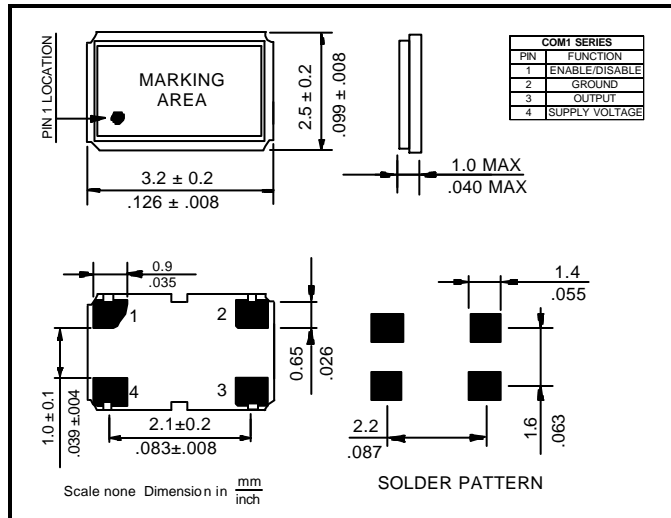
- ULTRA SMALL PACKAGE OF 3.2 x 2.5 x 1.0mm TYPICAL
- LOW SUPPLY VOLTAGE OF 1.8 AND 2.5 VDC AVAILABLE
- STANDBY FUNCTION
- LEAD FREE / RoHS COMPLIANT

#### SPECIFICATIONS

SERIES	COM118	COM125	COM13	
FREQUENCY RANGE	1.544 MHz TO 60.000 MHz			
FREQUENCY STABILITY **	COM11810 : ±100 ppm	COM12510 : ±100 ppm	COM1310 : ±100ppm	
	COM11805 : ±50 ppm	COM12505 : ±50 ppm	COM1305 : ±50ppm	
	COM118025 : ±25 ppm	COM125025 : ±25 ppm	COM13025 : ±25ppm	
OPERATING TEMPERATURE RANGE	-10°C TO +70°C (-40°C TO +85°C AVAILABLE)			
STORAGE TEMPERATURE RANGE	-55° C TO +125° C			
INPUT	VOLTAGE	+1.8 VDC ±5%	+2.5 VDC ±5%	+3.3 VDC ±10%
	CURRENT (MAX)	1.544 MHz TO 9.99MHz: 5 mA MAX 10.00 MHz TO 31.99 MHz: 6 mA MAX 32.00 MHz TO 60.00 MHz: 15mA MAX	1.544 MHz TO 9.99MHz: 6 mA MAX 10.00 MHz TO 31.99 MHz: 8 mA MAX 32.00 MHz TO 60.00 MHz: 20mA MAX	1.544 MHz TO 9.99MHz: 7 mA MAX 10.00 MHz TO 31.99 MHz: 10 mA MAX 32.00 MHz TO 60.00 MHz: 20mA MAX
OUTPUT	SYMMETRY	40 TO 60% AT 50% VDD (45 TO 55% AVAILABLE)		
	RISE / FALL TIME	5 ns MAX		20 ns MAX
	LOGIC "0" LEVEL	VCC X 0.1 V MAX		
	LOGIC "1" LEVEL	VCC X 0.9 V MIN		
	LOAD	15 pF (HCMOS)		
ENABLE/DISABLE FUNCTION	PIN 1: HIGH OR OPEN PIN 3: OSCILLATION PIN 1: LOW PIN 3: HIGH IMPEDANCE			
START UP TIME	10 ms MAX			
STANDBY CURRENT	10 µA MAX			

\*\* INCLUSIVE OF 25°C TOLERANCE, OPERATING TEMPERATURE RANGE, VOLTAGE OR LOAD CHANGES, AGING, SHOCK AND VIBRATION. CONSULT FACTORY FOR TIGHTER STABILITY OPTIONS.

#### OUTLINE DRAWING



#### PACKAGING

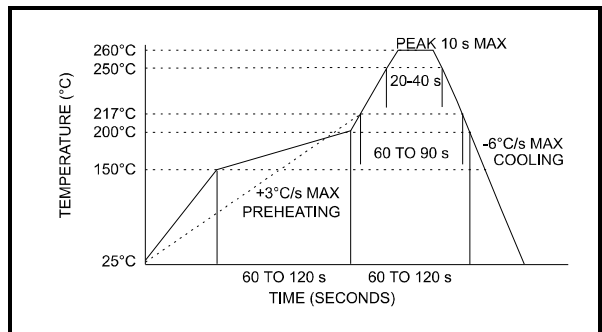
178 mm REEL DIAMETER, 8mm TAPE WIDTH, 4mm PITCH  
QUANTITY: 1000 PIECES PER REEL

#### PART NUMBERING SYSTEM

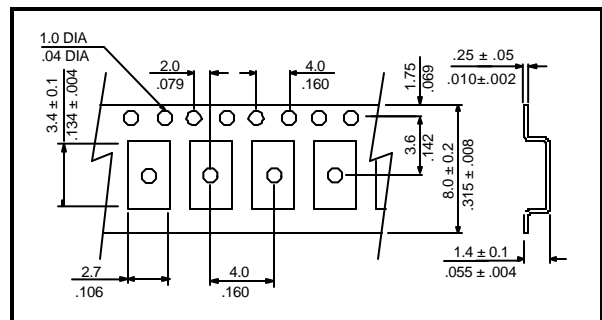
SERIES	SUPPLY VOLTAGE		FREQUENCY STABILITY		FREQUENCY	EXTENDED TEMPERATURE	DUTY CYCLE		TAPE & REEL
	18	25	10	05			T		
COM1	18	1.8V	10	±100 PPM	IN MHZ	EXT	T	45% TO 55%	TR
	25	2.5V	05	±50 PPM					
	3	3.3V	025	±25 PPM					

EXAMPLES: COM1305-25.000-EXT-T-TR

#### REFLOW SOLDERING PROFILE



#### CARRIER TAPE DIMENSIONS



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