

FEATURES

- ULTRA SMALL PACKAGE
- AVAILABLE FROM 1.8 VDC TO 5.0 VDC
- ENABLE/DISABLE FUNCTION

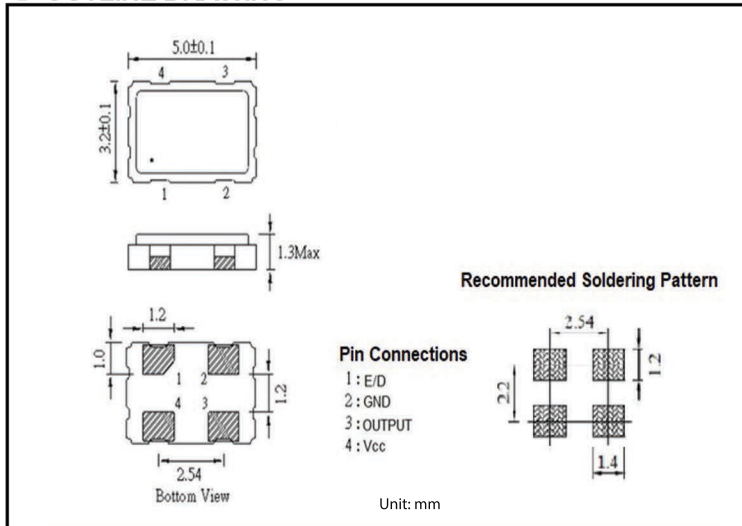
SPECIFICATIONS

SERIES		COM2 (3.3 AND 5.0 Vcc) †	COM2 (3.3 Vcc AND BELOW) †
FREQUENCY RANGE†		1.544 MHz TO 156.000 MHz	2.500 MHz TO 55.000 MHz
FREQUENCY STABILITY††		±25 PPM, ±30 PPM, ±50 PPM, ±100 PPM	±10 PPM, ±15 PPM, ±20 PPM, ±25 PPM
OPERATING TEMPERATURE RANGE		-10°C TO +70°C (STANDARD) -40°C TO +85°C (EXTENDED)	-10°C TO +70°C (STANDARD) -40°C TO +85°C (EXTENDED)
STORAGE TEMPERATURE RANGE		-55° C TO +125° C	-40°C TO +85°C
INPUT	VOLTAGE	+1.8 TO +5 VDC ± 10% †	+1.8 TO +3.3 VDC ± 10% †
	CURRENT (MAX)	1.544 MHz TO 9.99 MHz: 15 mA MAX 10.00 MHz TO 34.999 MHz: 20 mA MAX 35.00 MHz TO 49.999 MHz: 35 mA MAX 50.00 MHz TO 156.000 MHz: 40 mA MAX	7 mA MAX
OUTPUT	SYMMETRY	40% TO 60% AT 0.5*Vcc (NORMAL) 45% TO 55% AT 0.5*Vcc (TIGHT)	40% TO 60% AT 0.5*Vcc (NORMAL) 45% TO 55% AT 0.5*Vcc (TIGHT)
	RISE AND FALL TIME	10 ns MAX	5 ns MAX
	LOGIC "0" LEVEL	Vcc * 0.1 V MAX	Vcc * 0.1 V MAX
	LOGIC "1" LEVEL	Vcc * 0.9 V MIN	Vcc * 0.9 V MIN
	LOAD	CMOS 15 pF	CMOS 15 pF
ENABLE/DISABLE FUNCTION		PIN 1: HIGH OR OPEN PIN 3: OSCILLATION PIN 1: LOW PIN 3: HIGH IMPEDANCE	PIN 1: HIGH OR OPEN PIN 3: OSCILLATION PIN 1: LOW PIN 3: HIGH IMPEDANCE
ENABLE/DISABLE TIME		100 ns MAX	100 ns MAX
STANDBY CURRENT		100 µA MAX	10 µA MAX
JITTER, RMS (12 kHz ~ 20 MHz)		1.0 ps	

† NOT ALL COMBINATIONS OF FREQUENCY AND VOLTAGE ARE AVAILABLE, CONTACT SALES AT sales@raltron.com

†† INCLUSIVE OF 25°C TOLERANCE, OPERATING TEMPERATURE RANGE, VOLTAGE OR LOAD CHANGES, AGING, SHOCK AND VIBRATION

OUTLINE DRAWING



PACKAGING

178 mm REEL DIAMETER, 12mm TAPE WIDTH, 8mm PITCH
QUANTITY: 1000 PIECES PER REEL

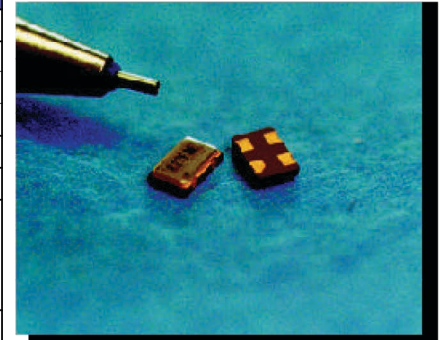
PART NUMBERING SYSTEM

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SERIES	INPUT VOLTAGE †		FREQUENCY STABILITY †		FREQUENCY		EXTENDED TEMPERATURE		TIGHT SYMMETRY		TAPE AND REEL		
COM2	5	5.0 VDC	10	±100 PPM	IN MHz	-	EXT	EXTENDED (-40°C to +85°C)	T	TIGHT SYMMETRY (45-55%)	-	TR	
	3	3.3 VDC	05	±50 PPM									
	30	3.0 VDC	03	±30 PPM									
	28	2.8 VDC	025	±25 PPM									
	25	2.5 VDC	02	±20 PPM									
	18	1.8 VDC	015	±15 PPM									
			01	±10 PPM									

EXAMPLE: COM2503-32.000-TR



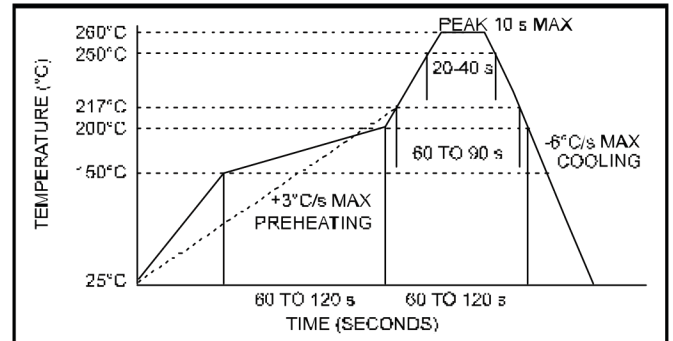
SERIES COM2



ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
REACH-SVHC	COMPLIANT
RoHS	6/6
TERMINATION FINISH	Au

REFLOW SOLDERING PROFILE



CARRIER TAPE DIMENSIONS

