

RH100-25.000-18-F-1017-TR

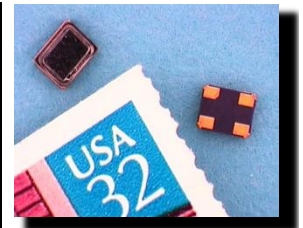
● APPROVAL

DRAWN BY	F. Parra, 21 Sept 2012
APPROVED BY	F. Parra, 21 Sept 2012
REVISION	A



● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	25.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±10 PPM MAXIMUM
FREQUENCY STABILITY OVER TEMPERATURE	±17 PPM MAXIMUM
OPERATING TEMPERATURE RANGE	-10°C TO +60°C
STORAGE TEMPERATURE RANGE	-40°C TO +85°C
AGING	±3 PPM PER YEAR MAXIMUM
LOAD CAPACITANCE	18 pF
EQUIVALENT SERIES RESISTANCE	30 OHMS MAXIMUM
SHUNT CAPACITANCE	5.0 pF MAXIMUM
DRIVE LEVEL	100 µW TYPICAL, 500 µW MAXIMUM
SHOCK RESISTANCE	±5 PPM MAXIMUM 75 cm DROP TEST IN 3 AXES ON TO A HARD SURFACE
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM



■ PART NUMBERING SYSTEM

TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	MODE	-
RH100	-	25.000	-	18	-	F FOR ≥ 24.576 MHz	-

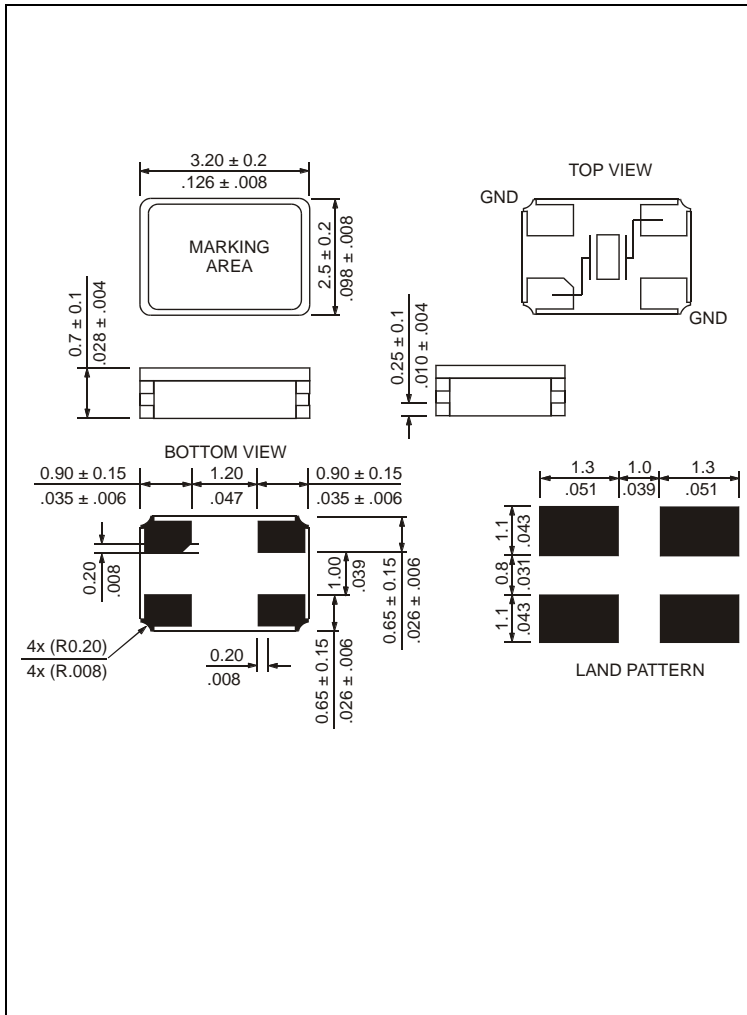
TOLERANCE/STABILITY (PPM/PPM)	-	EXTENDED TEMPERATURE	-	TAPE & REEL
1017	-	Blank FOR STANDARD	-	TR

EXAMPLE: RH100-25.000-18-TR

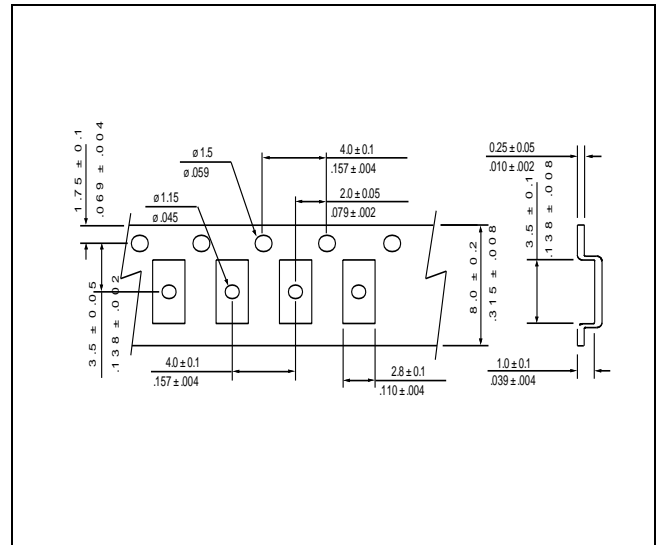
Surface Mount Microprocessor Crystal, 3.2 x 2.5 mm package, 25.000 MHz, 18 pF load, Fundamental mode, ±10 ppm Tolerance, ±17 ppm Stability, from -10°C to +60°C, Tape and reel packaging

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MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR NON-SPECIFIED DIMENSIONS

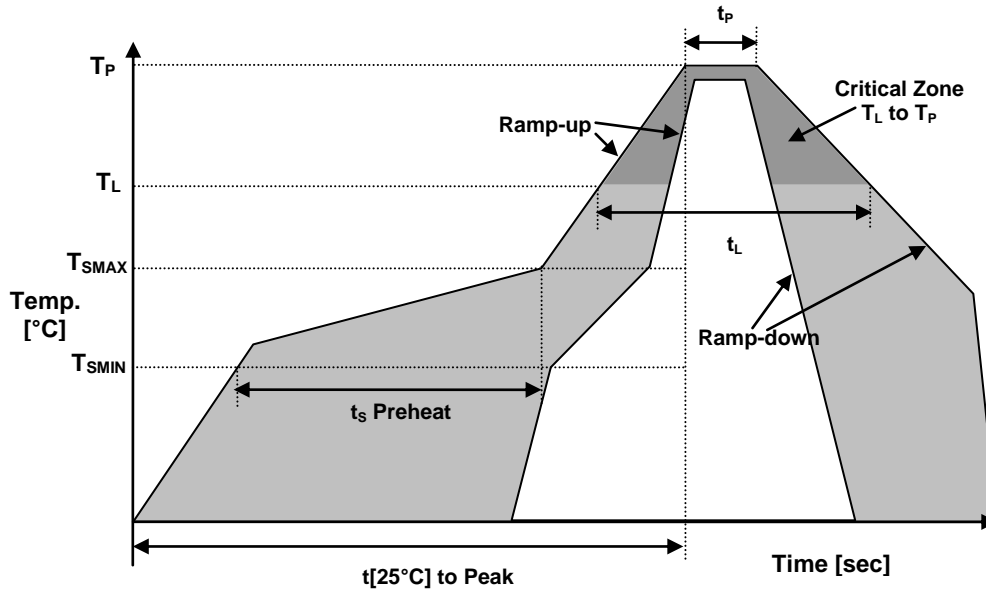
PACKAGING

180 mm REEL DIAMETER
8 mm TAPE WIDTH, 4 mm PITCH
QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

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REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°C
Time (T_{SMIN} to T_{SMAX})	t_s	60-180 sec.
Temperature	T_L	217°C
Peak Temperature	T_P	260°C
Ramp-up rate	R_{UP}	3°C/sec max.
Ramp-down rate	R_{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t_p	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	t_L	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	6/6 LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au
UNIT WEIGHT (GRAMS)	0.018 ±0.001

