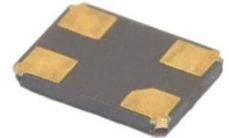


SERIES RH100



FEATURES

- COMPACT DESIGN
- HIGH ACCURACY
- EXCELLENT FOR HIGH DENSITY SURFACE MOUNTING

SPECIFICATIONS

PARAMETER		VALUE
FREQUENCY RANGE		8.000 MHz to 156.250 MHz
MODE OF OSCILLATION	FUNDAMENTAL	8.000 MHz to 80.000 MHz
	THIRD OVERTONE	60.000 MHz to 156.250 MHz
FREQUENCY TOLERANCE AT 25°C		±100 ppm max (±10 ppm, ±20 ppm and ±50 ppm available)
FREQUENCY STABILITY OVER TEMPERATURE		±100 ppm max (±10 ppm, ±20 ppm and ±50 ppm available)
OPERATING TEMPERATURE RANGE		-20°C to +70°C Standard -40°C to +85°C Extended
STORAGE TEMPERATURE RANGE		-40°C to +85°C
AGING		±2 ppm 1st year max
LOAD CAPACITANCE		6 pF to 32 pF or Series
EQUIVALENT SERIES RESISTANCE		See Table 1
SHUNT CAPACITANCE		3.5 pF max
DRIVE LEVEL		200 µW max
SHOCK RESISTANCE		±5 ppm max 75 cm drop test in 3 axes onto a hard wood surface
REFLOW CONDITIONS		260°C ±5°C for 10s max

TABLE 1

FREQUENCY (MHz)	MODE	MAXIMUM ESR (Ω)
8.000 to 9.999	FUND	500
10.000 to 10.999	FUND	250
11.000 to 11.999	FUND	150
12.000 to 12.999	FUND	100
13.000 to 15.999	FUND	80
16.000 to 20.999	FUND	70
21.000 to 29.999	FUND	60
30.000 to 80.000	FUND	50
60.000 to 156.250	3OT	100

PART NUMBERING SYSTEM

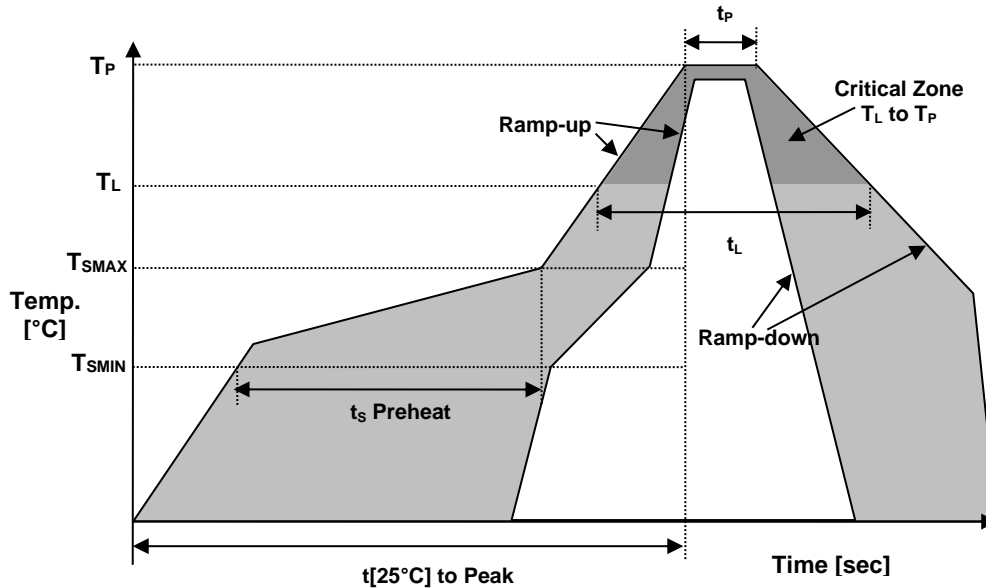
TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	MODE	-
RH100	-	IN MHz	-	6 TO 32 pF FOR PARALLEL S FOR SERIES	-	Blank FOR < 24.576 MHz F FOR ≥ 24.576 MHz 3OT THIRD OVERTONE	-

TOLERANCE/STABILITY (PPM/PPM)	-	OPERATING TEMPERATURE	-	TAPE & REEL
Blank FOR MAXIMUM PPMPM Example: 1020, 2050	-	Blank FOR STANDARD EXT FOR EXTENDED	-	TR

EXAMPLE: RH100-24.000-18-TR

Surface Mount Microprocessor Crystal, 3.2 x 2.5 mm, 24.000 MHz, Fundamental mode, 18 pF load, ±100 ppm Tolerance, ±100 ppm Stability, from -20°C to +70°C, Tape and reel packaging

● **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°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t _L	60-150 sec.

● **ENVIRONMENTAL**

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	COMPLIANT
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au
UNIT WEIGHT (GRAMS)	0.01945

