

SERIES R1210

FEATURES

- ULTRA SMALL ULTRA THIN
- AUTOMATIC MOUNTING POSSIBLE
- REFLOW POSSIBLE



SPECIFICATIONS

0. 2007.11.01.0					
PARAMETER	VALUE				
FREQUENCY RANGE*	32.000 MHz to 60.000 MHz				
MODE OF OSCILLATION	AT CUT, Fundamental				
FREQUENCY TOLERANCE AT 25°C	±50 ppm max ±10ppm, ±20ppm, ±30 ppm available				
FREQUENCY STABILITY OVER TEMPERATURE*	±50 ppm max ±10ppm, ±20ppm, ±30 ppm available				
OPERATING TEMPERATURE RANGE*	-10°C to +60°C Standard -40°C to +85°C Extended				
STORAGE TEMPERATURE RANGE	-40°C to +85°C				
AGING	±2 ppm 1st year max				
LOAD CAPACITANCE	8 pF to 32 pF or Series Resonance				
EQUIVALENT SERIES RESISTANCE	See Table 1				
SHUNT CAPACITANCE	3.0 pF max				
DRIVE LEVEL	50 μW max				



 $^{{}^{\}star}\text{Not any Combination Frequency-Operating Temperature Range-Stability is available. Please consult factory}$

TABLE 1				
FREQUENCY (MHz)	MODE	MAXIMUM ESR (Ω)		
32.000 to 40.999	FUND	150		
41.000 to 60.000	FUND	100		

PART NUMBERING SYSTEM

TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	MODE	TOLERANCE/STABLITY (PPM/PPM)
R1210		IN MHz	1	8 to 32 pF for PARALLEL S for SERIES	1	Blank for < 24.576 MHz F for ≥ 24.576 MHz	Blank for 5050 PPMPPM for OTHER Example: 1020, 2050

-	TEMPERATURE RANGE	-	TAPE & REEL
Г	Blank for STANDARD		TR
-	EXT for EXTENDED	•	

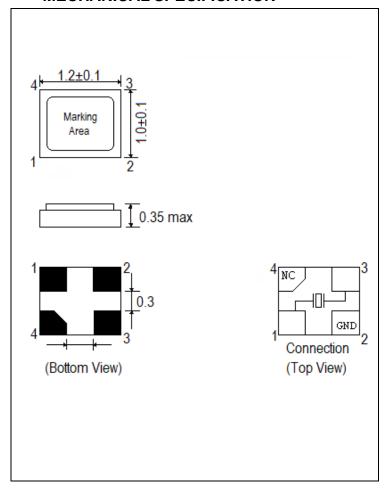
EXAMPLE: R1210-32.000-8-F-1030-TR

Surface Mount Crystal, 1.2 x 1.0 mm, 32.000 MHz, 8 pF Load, Fundamental Mode, ±10 ppm Tolerance, ±30 ppm Stability, from -10°C to +60°C, Tape and reel Packaging

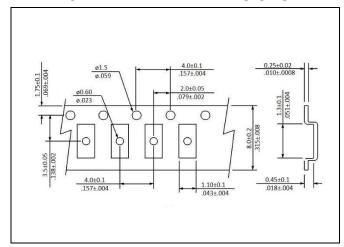


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MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



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

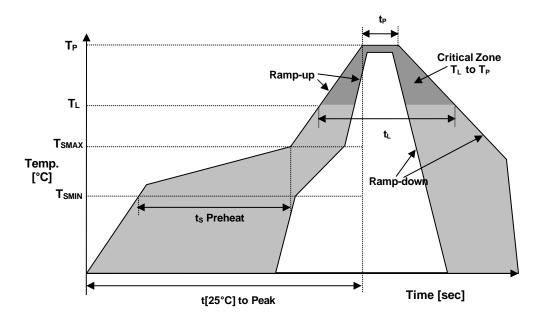
PACKAGING

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



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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})	ts	60-180 sec.		
Temperature	TL	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



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