





SERIES R1612

FEATURES

- **ULTRA SMALL ULTRA THIN**
- **AUTOMATIC MOUNTING POSSIBLE**
- **REFLOW POSSIBLE**
- **EXCELLENT FOR HIGH DENSITY APPLICATIONS**



SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY RANGE	26.000 MHz TO 60.000 MHz
MODE OF OSCILLATION	AT CUT, FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±15 PPM, or ±30 PPM
FREQUENCY STABILITY OVER TEMPERATURE	±15 PPM, or ±30 PPM
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 PER YEAR or ±5 PPM PER YEAR
LOAD CAPACITANCE	8 pF to 10 pF
EQUIVALENT SERIES RESISTANCE	SEE TABLE 1
SHUNT CAPACITANCE	5.0 pF MAXIMUM
DRIVE LEVEL	50 μW MAX
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM

TABLE 1					
FREQUENCY (MHz)	MODE	MAXIMUM ESR (OHMS)			
26.000TO 40.999	FUND	150			
41.000 TO 60.999	FUND	100			

PART NUMBERING SYSTEM

TYPE	-	FREQUENCY	-	LOAD CAPACITANCE	-	MODE	-
R1612	-	IN MHz	-	8 TO 10 pF FOR PARALLEL	-	F	-

TOLERANCE/STABLITY (PPM/PPM)	•	EXTENDED TEMPERATURE	•	TAPE & REEL
PPMPPM Example: 1020, 2050		Blank FOR STANDARD EXT FOR EXTENDED		TR

EXAMPLE: R1612-24.000-8-F-1530-TR

Surface Mount Crystal, 1.6 x 1.2 mm, 24.000 MHz, 8 pF load, Fundamental mode, ±15 ppm Tolerance, ±30 ppm Stability, from -10°C to +60°C, Tape and reel packaging





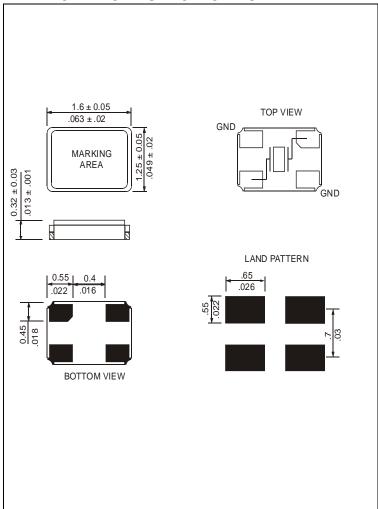




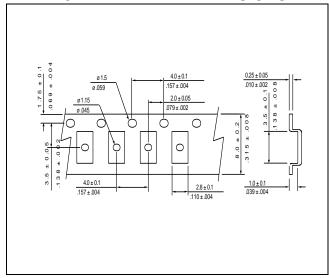


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MECHANICAL SPECIFICATION



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

IN ACCORDANCE WITH EIA-481

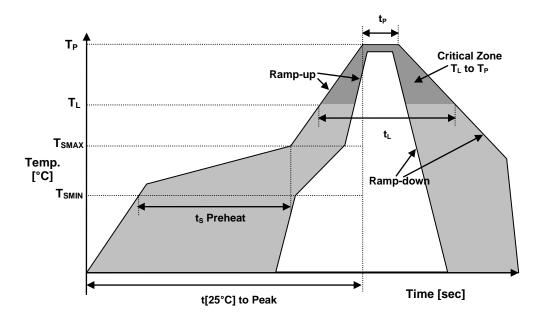






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REFLOW PROFILE



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°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	6/6 LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au



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