

SURFACE MOUNT MICROPROCESSOR CRYSTAL

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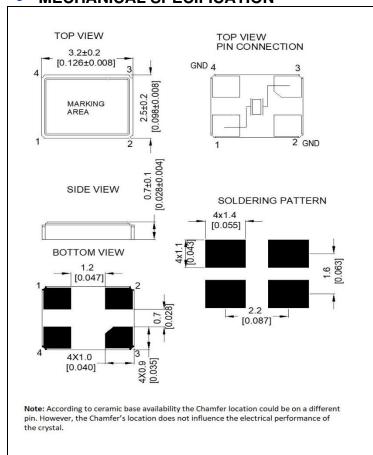
RH100-24.000-12-1020-EXT-TR-N1

SPECIFICATIONS

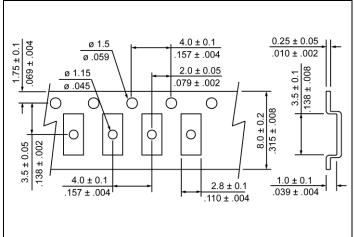
PARAMETER	VALUE
NOMINAL FREQUENCY	24.000 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±10 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±20 ppm max
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±2 ppm first year max
LOAD CAPACITANCE	12 pF
EQUIVALENT SERIES RESISTANCE	$30 \Omega \max \qquad \qquad \Leftrightarrow$
SHUNT CAPACITANCE	3.5 pF max
DRIVE LEVEL	300 μW max



MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

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

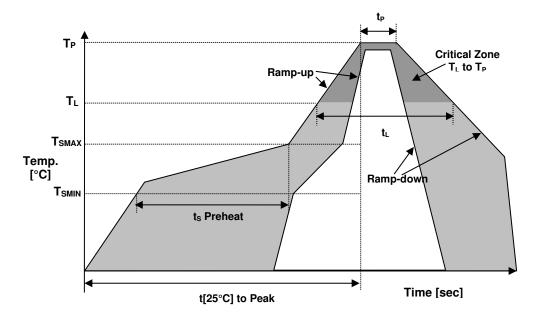
IN ACCORDANCE WITH EIA-481

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REFLOW PROFILE



Reflow profile				
Temperature Min Preheat	T _{SMIN}	125°C		
Temperature Max Preheat	T _{SMAX}	150°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₽	10 sec		
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec		
Time	t∟	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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MARKING

R24.000 xxJEyw

x – Internal Production ID code

y – Year code

w – Week code

YEAR CODE		
Year	Code	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	
2026	6	
2027	7	
2028	8	
2029	9	

ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	О
6	f	24	x	42	P
7	g	25	У	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	В	46	T
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	О	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	r	36	J		

APPROVAL

DRAWN BY	KJackson, November 21, 2019
APPROVED BY	JIvens, November 21, 2019
REVISION	A, Initial Release
	B, Updated to current spec levels by AG, July 29, 2020
	C, Updated to current spec levels KJ 1/14/22

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