

### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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#### RH100-24.000-18-1020-EXT-TR

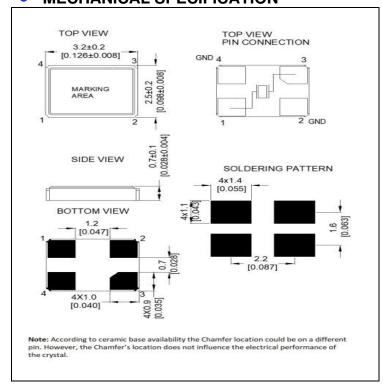
# SPECIFICATIONS

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	18 pF	
EQUIVALENT SERIES RESISTANCE	60 Ω max	
SHUNT CAPACITANCE	3.5 pF max	
DRIVE LEVEL	300 μW max	

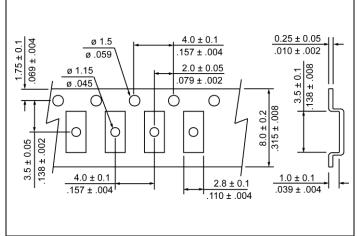


Photo is not actual part

# 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

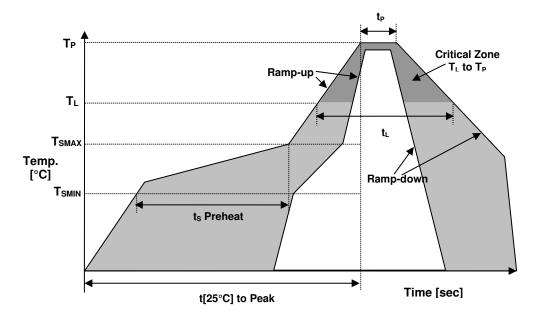
IN ACCORDANCE WITH EIA-481

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# REFLOW PROFILE



Reflow profile				
Temperature Min Preheat	T <sub>SMIN</sub>	150°C		
Temperature Max Preheat	T <sub>SMAX</sub>	200°C		
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	t <sub>S</sub>	60-180 sec		
Temperature	$T_L$	217°C		
Peak Temperature	$T_P$	260°C		
Ramp-up rate	R <sub>UP</sub>	3°C/sec max		
Ramp-down rate	R <sub>DOWN</sub>	6°C/sec ma.		
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 <sub>L</sub>	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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## RH100-24.000-18-1020-EXT-TR

#### MARKING

R24.00 xxBEyw

x – Internal Production ID code

y – Year code

w - Week code

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

	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	C	47	U
12	1	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		

#### APPROVAL

DRAWN BY	YG Jiao, September 09, 2019
APPROVED BY	AG, September 09, 2019
REVISION	A, Initial Release B, Updated to current spec levels KJ 12/21/21
	C, Mechanical specs updated 1/14/22 KJ

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