

#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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#### RH100-38.400-15-F-2030-EXT-TR-NS1

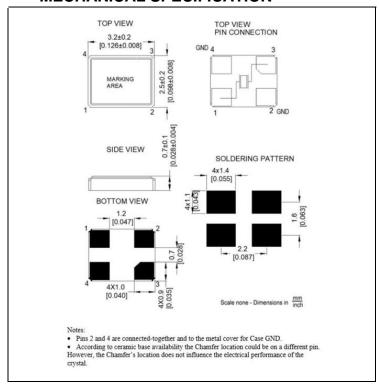
#### SPECIFICATIONS

PARAMETER	VALUE	
NOMINAL FREQUENCY	38.400 MHz	
MODE OF OSCILLATION	Fundamental	
FREQUENCY TOLERANCE AT 25°C	±20 ppm max	
FREQUENCY STABILITY OVER TEMPERATURE	±30 ppm max	
OPERATING TEMPERATURE RANGE	-40°C to +85°C	
STORAGE TEMPERATURE RANGE	-55°C TO +125°C	
AGING	±2 ppm first year max	
LOAD CAPACITANCE	15 pF	
EQUIVALENT SERIES RESISTANCE	40 Ω max	
SHUNT CAPACITANCE	3.5 pF max	
DRIVE LEVEL	300 μW max	
INSULATION RESISTANCE	500 MΩ min	

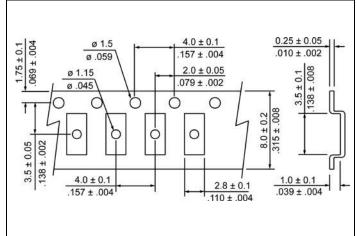


Photo is not actual part

# 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

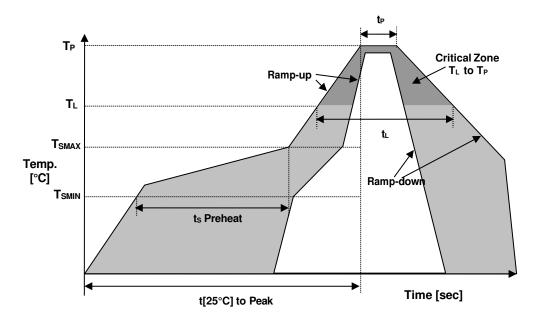
IN ACCORDANCE WITH EIA-481

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# RH100-38.400-15-F-2030-EXT-TR-NS1

# REFLOW PROFILE



Reflow profile				
Temperature Min Preheat	T <sub>SMIN</sub>	125°C		
Temperature Max Preheat	T <sub>SMAX</sub>	150°C		
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	ts	30-180 sec.		
Temperature	TL	217°C		
Peak Temperature	T <sub>P</sub>	260°C		
Ramp-up rate	Rup	3°C/sec max.		
Ramp-down rate	R <sub>DOWN</sub>	6°C/sec max.		
Time within 5°C of Peak Temperature	t <sub>P</sub>	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





#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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# RH100-38.400-15-F-2030-EXT-TR-NS1

# MARKING

R38.40 xxNDyw

x – Internal Production ID code

y – Year code

w – Week code

YEAR CODE		
Year	Code	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	
2026	6	
2027	7	
2029	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	0
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	p	34	Н	52	Z
17	q	35	I		
18	r	36	J		

#### APPROVAL

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DRAWN BY	CP, August 14, 2017
APPROVED BY	JI, August 14, 2017
	A, Initial Release
REVISION	B, AR, January 14, 2022
	Updated the Current Revision Levels

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