

SURFACE MOUNT MICROPROCESSOR CRYSTAL

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RH100-40.000-11.5-F-0720-T-NS3 Rev C

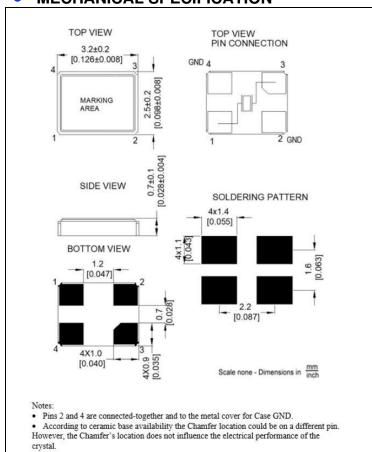
SPECIFICATIONS

PARAMETER	VALUE		
NOMINAL FREQUENCY	40.000 MHz		
MODE OF OSCILLATION	Fundamental		
FREQUENCY TOLERANCE AT 25°C	±07 ppm max		
FREQUENCY STABILITY OVER TEMPERATURE	±20 ppm max		
OPERATING TEMPERATURE RANGE	-20°C to +90°C		
STORAGE TEMPERATURE RANGE	-40°C to +105° C		
AGING	±1 ppm per year max		
LOAD CAPACITANCE	11.5 pF		
EQUIVALENT SERIES RESISTANCE	30 Ω max \Leftrightarrow		
SHUNT CAPACITANCE	3 pF max ←		
DRIVE LEVEL	100 μW max		
INSULATION RESISTANCE	500 MΩ min		

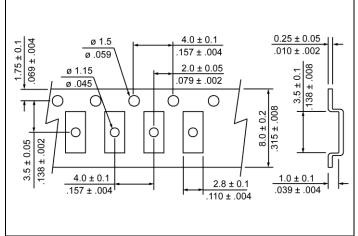


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

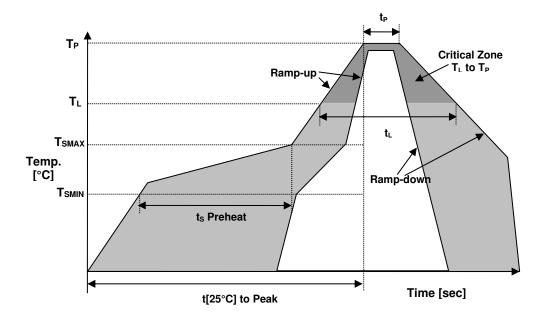
178 mm REEL DIAMETER 8 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481



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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 _P	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

R40.00 xx5Nyw

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	
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	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

DRAWN BY	F. Parra, 24 March 2015	
APPROVED BY	F. Parra, 24 March 2015	
	A, Initial Release	
REVISION	B, Updated to current spec levels	
	KJ 4/4/18	
	C, Updated to current spec levels	
	AR 3/19/2021	

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