

#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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#### RH100-40.000-10-F-3030-TR-NS2

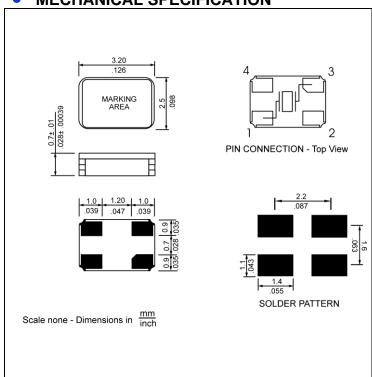
## SPECIFICATIONS

PARAMETER	VALUE	
NOMINAL FREQUENCY	40.000 MHz	
MODE OF OSCILLATION	FUNDAMENTAL	
FREQUENCY TOLERANCE AT 25°C	±30 PPM MAXIMUM	
FREQUENCY STABILITY OVER TEMPERATURE	±30 PPM MAXIMUM	
OPERATING TEMPERATURE RANGE	-20°C TO +70°C	
STORAGE TEMPERATURE RANGE	-40°C TO +85°C	
AGING	±3 PPM PER YEAR MAXIMUM	
LOAD CAPACITANCE	10 pF	
EQUIVALENT SERIES RESISTANCE	60 Ω	
SHUNT CAPACITANCE	2 pF MAXIMUM     ⇔	
DRIVE LEVEL	100 μW MAXIMUM	
MOTIONAL CAPACITANCE	4.0fF TYPICAL	
MOTIONAL INDUCTANCE	3.96mH TYPICAL	
MOTIONAL RESISTANCE	7 OHMS TYPICAL	

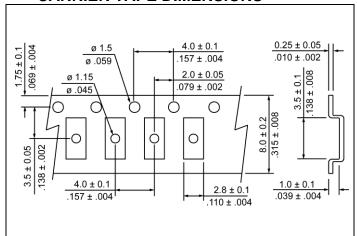


Photo is not actual part

# 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

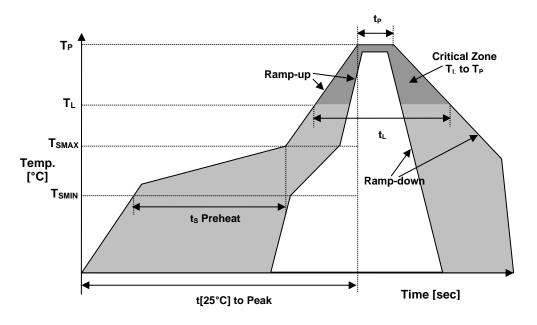
IN ACCORDANCE WITH EIA-481



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## REFLOW PROFILE



Reflow profile			
Temperature Min Preheat	T <sub>SMIN</sub>	125°C	
Temperature Max Preheat	T <sub>SMAX</sub>	150°C	
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	ts	30-60 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 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	120 sec.	
Time	t∟	60-150 sec.	

## ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS-2	6/6 COMPLIANT & LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au





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## RH100-40.000-10-F-3030-TR-NS2

## MARKING

R40.00 xxKFyw

x – Internal Production ID code

y - Year code

w - Week code

YEAR CODE		
Year	Code	
2011	1	
2012	2	
2013	3	
2014	4	
2015	5	
2016	6	
2017	7	
2018	8	
2019	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	О	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	KJackson, May 9, 2016
APPROVED BY	KJackson, May 9, 2016
REVISION	A, Initial Release

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