

## RH100-32.000-10-F-1010-TR-NS5

### ● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY $F_n$	32.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±10 PPM MAX
FREQUENCY STABILITY OVER TEMPERATURE	±10 PPM over -30°C to +70°C ⇄ ±15 PPM over -30°C to +85°C
OPERATING TEMPERATURE RANGE	-30°C to +85°C ⇄
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±2 PPM PER YEAR MAX ⇄
LOAD CAPACITANCE	10 pF
EQUIVALENT SERIES RESISTANCE	30Ω TYP, 50 Ω MAX ⇄
SHUNT CAPACITANCE	2.8pF TYP, 7 pF MAX ⇄
UNWANTED MODE(from $F_n$ to $F_n +500$ kHz), $R_p/R_1$	2 MIN ⇄
DRIVE LEVEL	100 μW TYPICAL ⇄

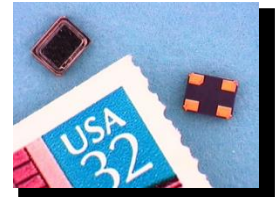
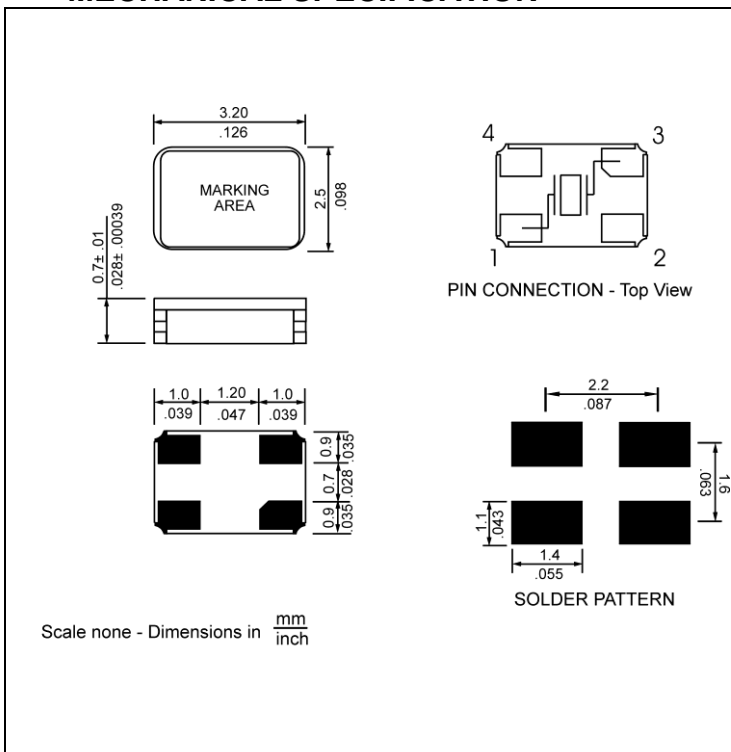
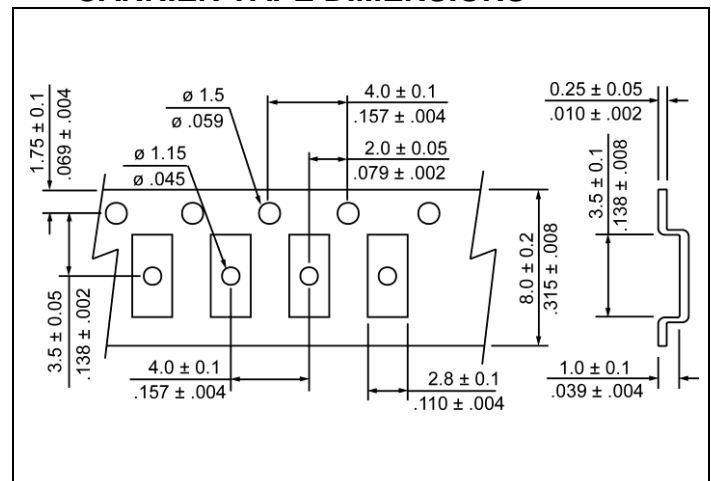


Photo is not actual part

### ● 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

● REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	125°C
Temperature Max Preheat	$T_{SMAX}$	150°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	30-60 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	230°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 $t_{[25^\circ\text{C}]}$ to Peak Temperature	$t_{[25^\circ\text{C}]}$ to Peak	120 sec.
Time	$t_L$	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



● MARKING

R32.00  
xxKEyw

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	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	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	H	52	Z
17	q	35	I		
18	r	36	J		

● APPROVAL

DRAWN BY	CP, June 25, 2015
APPROVED BY	CP, June 25, 2015
REVISION	A, Initial Release