



THE DATASHEET OF
R2016-32.000-10-F-1010-TR-B1B_REVB



**R2016-32.000-10-F-1010-TR-B1B
REV B**

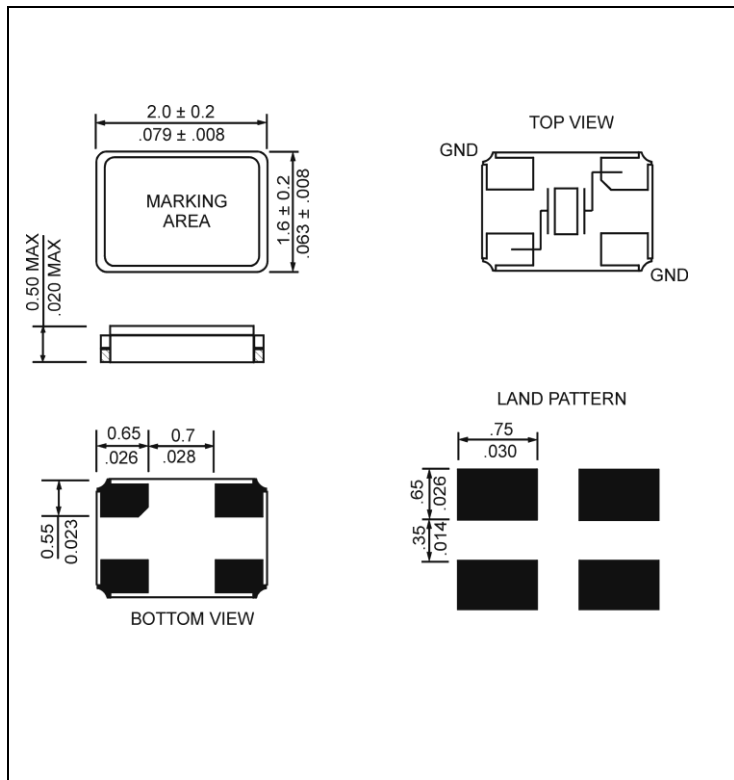
SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±10 PPM MAXIMUM
FREQUENCY STABILITY OVER TEMPERATURE	±10 PPM MAXIMUM
OPERATING TEMPERATURE RANGE	-30°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	40 Ω ↔
SHUNT CAPACITANCE	7 pF MAXIMUM
UNWANTED MODE	FROM F _n TO F _n +500kHz
R _p /R ₁	2 MINIMUM
DRIVE LEVEL	100 μW MAXIMUM
G-SENSITIVITY	2 PPB/G MAXIMUM
SHOCK RESISTANCE	±5 PPM MAXIMUM 75 cm DROP TEST ON A HARD WOOD SURFACE
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM

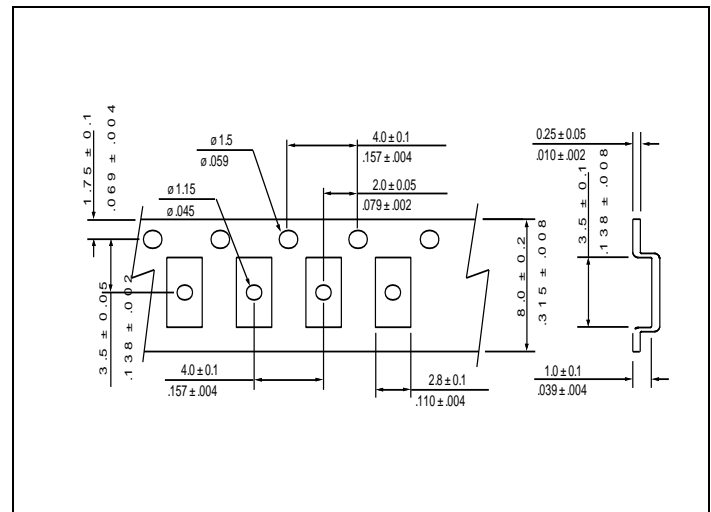


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



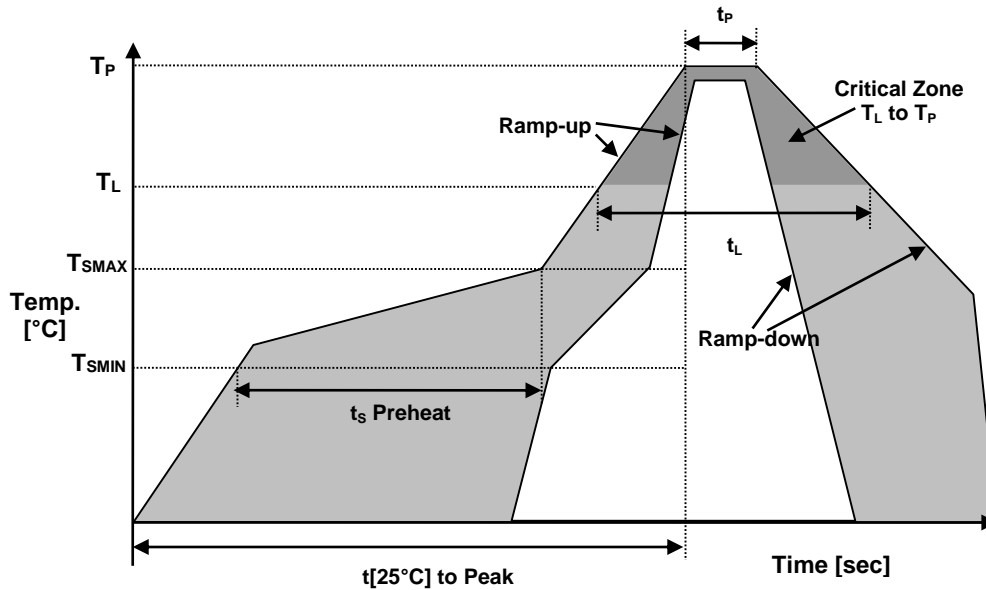
NOTE: REFER TO EIA-481 FOR DIMENSIONS

● PACKAGING

178 mm REEL DIAMETER
 8 mm TAPE WIDTH, 4 mm PITCH
 QUANTITY: 1000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°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 $t_{[25^\circ\text{C}] \text{ to Peak}}$	$t_{[25^\circ\text{C}] \text{ to Peak}}$	480 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

R320
XKyw

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:	KJackson, February 9, 2016
APPROVED BY:	KJackson, February 9, 2016
REVISION:	A, Initial Release
	B, Added G-Sensitivity Spec and revised ESR 2/10/16 KJ



A **RAMI TECHNOLOGY** Company

SURFACE MOUNT CRYSTAL



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REV B

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-  [Raltron Electronics Corporation Information](#)

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-  Alternative Solution
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