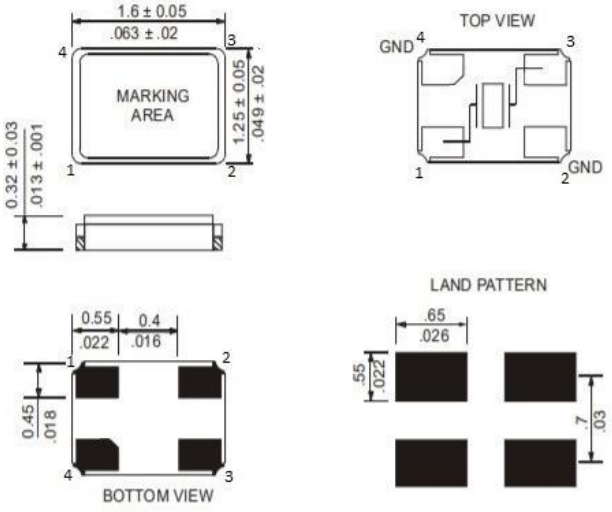
R1612-27.000-8-F-3030-TR

SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY	27.000 MHz
MODE OF OSCILLATION	AT CUT, Fundamental
FREQUENCY TOLERANCE AT 25°C	±30 ppm
FREQUENCY STABILITY OVER TEMPERATURE	±30 ppm
OPERATING TEMPERATURE RANGE	-10°C to +60°C ⇦
STORAGE TEMPERATURE RANGE	-40°C to +90°C
AGING	±1 ppm per year
LOAD CAPACITANCE	8 pF
EQUIVALENT SERIES RESISTANCE	150 Ω ⇦
SHUNT CAPACITANCE	5.0 pF max
DRIVE LEVEL	50 µW max
REFLOW CONDITIONS	260°C ±5°C for 10s max

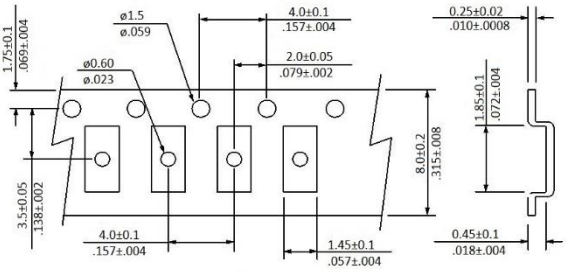
RoHS Compliant

MECHANICAL SPECIFICATION



Note: According to ceramic base availability the Chamfer location could be on a different pin. However, the Chamfer's location does not influence the electrical performance of the crystal.

CARRIER TAPE DIMENSIONS



NOTE:

REFER TO EIA-481 FOR NON-SPECIFIED DIMENSIONS

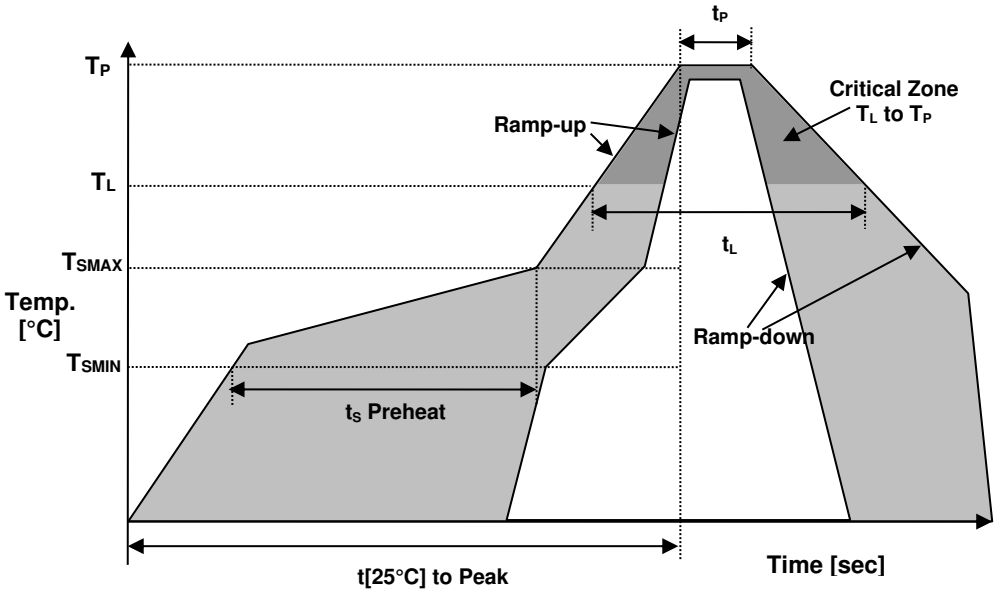
PACKAGING

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

IN ACCORDANCE WITH EIA-481

Revision: A Initial Release
Approval By: FP
Date: 25 July 2013

• 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°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t_L	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

• MARKING

R270
8Fyw

x – 1 or 2 digits as Internal Production ID code
y – Year code
w – Week code

YEAR CODE	
Year	Code
2015	5
2016	6
2017	7
2018	8
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5

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:	
APPROVED BY:	FP, 25 July, 2013
REVISION:	A, Initial Release
	B, AR, July 21, 2020 Updated the Current Revision Levels