

Page 1 of 3

## R2016-32.000-10-F-1020-EXT-TR

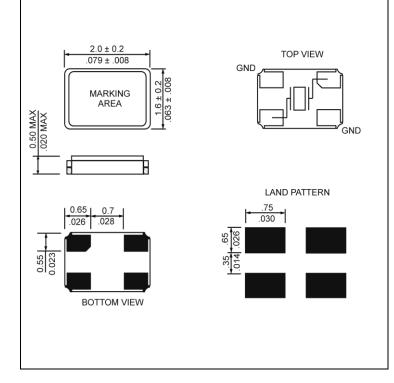
# **SPECIFICATIONS**

PARAMETER	VALUE	
NOMINAL FREQUENCY	32.000 MHz	
MODE OF OSCILLATION	Fundamental	
FREQUENCY TOLERANCE AT 25°C	±10 ppm max	
FREQUENCY STABILITY OVER TEMPERATURE	±20 ppm max	
OPERATING TEMPERATURE RANGE	-40°C to +85°C	
STORAGE TEMPERATURE RANGE	-40°C to +85°C	
AGING	±3 ppm per year max	
LOAD CAPACITANCE	10 pF	
EQUIVALENT SERIES RESISTANCE	180 Ω max	
SHUNT CAPACITANCE	5 pF max	
DRIVE LEVEL	100 μW max	
SHOCK RESISTANCE	±5 ppm max 75 cm drop test onto a hard wood surface	
REFLOW CONDITIONS	260°C ±5°C for 10 sec max	

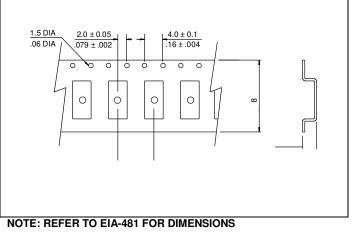


Photo is not actual part

### **MECHANICAL SPECIFICATION**



### **CARRIER TAPE DIMENSIONS**



#### PACKAGING

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

IN ACCORDANCE WITH EIA-481

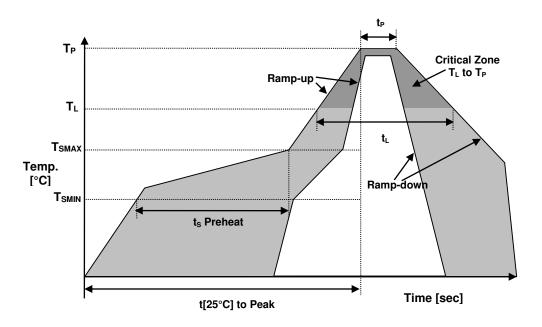


#### SURFACE MOUNT CRYSTAL

Page 2 of 3

R2016-32.000-10-F-1020-EXT-TR

## • REFLOW PROFILE



Reflow profile			
Temperature Min Preheat	T <sub>SMIN</sub>	150°C	
Temperature Max Preheat	T <sub>SMAX</sub>	200°C	
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	ts	60-180 sec.	
Temperature	TL	217°C	
Peak Temperature	T <sub>P</sub>	260°C	
Ramp-up rate	RUP	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	480 sec.	
Time	tL	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





#### SURFACE MOUNT CRYSTAL

Page 3 of 3

R2016-32.000-10-F-1020-EXT-TR

#### 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	а	19	s	37	K
2	b	20	t	38	L
3	с	21	u	39	М
4	d	22	v	40	Ν
5	e	23	w	41	0
6	f	24	х	42	Р
7	g	25	у	43	Q
8	h	26	Z	44	R
9	i	27	А	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	Х
15	0	33	G	51	Y
16	р	34	Н	52	Z
17	q	35	Ι		
18	r	36	J		

### APPROVAL

DRAWN BY:	KJackson, January 31, 2017
APPROVED BY:	Jlvens, January 31, 2017
REVISION:	A, Initial Release

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