

## R2520-16.000-8-1010-TR

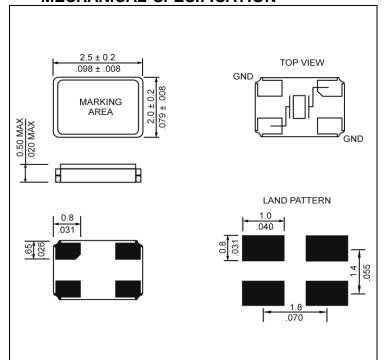
#### SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	16.000 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±10 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±10 ppm max
OPERATING TEMPERATURE RANGE	-10°C to +60°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±3 ppm first year max
LOAD CAPACITANCE	8 pF
EQUIVALENT SERIES RESISTANCE	150 $\Omega$ max
SHUNT CAPACITANCE	7 pF max
DRIVE LEVEL	500 μW max
SHOCK RESISTANCE	±5 ppm max 75 cm drop test onto a hard wood surface
REFLOW CONDITIONS	260°C ± 5°C for 10s max

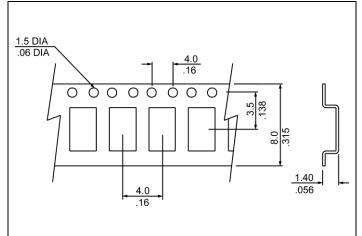


Photo is not actual par

#### MECHANICAL SPECIFICATION



#### CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

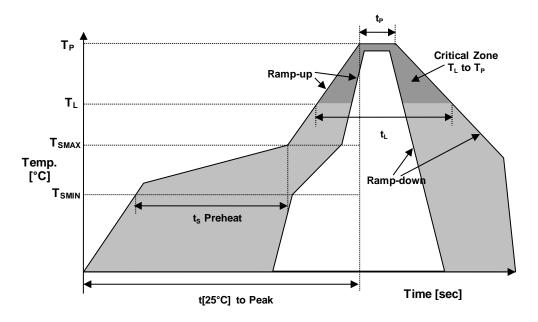
# PACKAGING

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



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## 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> )	t <sub>s</sub>	60-180 sec.		
Temperature	T <sub>L</sub>	217°C		
Peak Temperature	T <sub>P</sub>	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 <sub>P</sub>	10 sec.		
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.		
Time	t∟	60-150 sec.		

## ENVIRONMENTAL

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







## R2520-16.000-8-1010-TR

#### MARKING

R16.0 xx8yw

xx-1 or 2 digits as 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	С	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	0
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	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	H	52	Z
17	q	35	I		
18	r	36	J		

### APPROVAL

DRAWN BY	KJackson, March 2, 2016
APPROVED BY	KJackson, March 2, 2016
REVISION	A, Initial Release
	B, Updated to current spec levels
	by YLi, June 3, 2020

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