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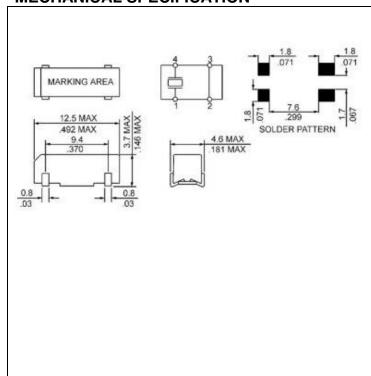
SPECIFICATIONS

PARAMETER	VALUE		
NOMINAL FREQUENCY	12.000 MHz		
MODE OF OSCILLATION	Fundamental		
FREQUENCY TOLERANCE AT 25°C	±50 ppm max		
FREQUENCY STABILITY OVER TEMPERATURE	±50 ppm max		
OPERATING TEMPERATURE RANGE	-10°C to +60°C		
STORAGE TEMPERATURE RANGE -40°C to +90°C			
AGING	±5 ppm per year max		
LOAD CAPACITANCE	18 pF		
EQUIVALENT SERIES RESISTANCE	50 Ω max		
SHUNT CAPACITANCE 5 pF max			
DRIVE LEVEL	10 μW typ, 100 μW max		
REFLOW CONDITIONS	260°C ±5°C for 10 sec max		

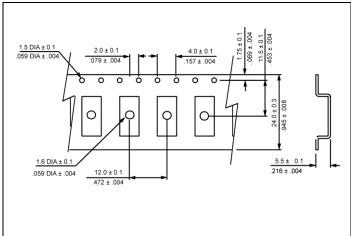


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

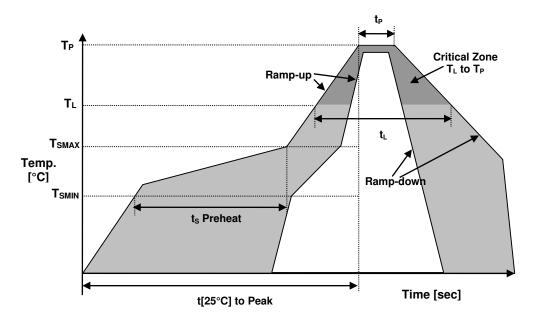
178 mm REEL DIAMETER 24 mm TAPE WIDTH, 12 mm PITCH QUANTITY: 1000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481



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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-2	6/6 COMPLIANT & LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn





LOW PROFILE MICROPROCESSOR CRYSTAL

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MARKING

R120xxByw

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	О
6	f	24	x	42	P
7	g	25	у	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	Е	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVAL

DRAWN BY:	CP, January 12, 2015
APPROVED BY:	CP, January 12, 2015
REVISION:	A, Initial Release
	Updated to current spec
	levels KJ 1/6/17

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