

AS-12.000-18-SMD-TR

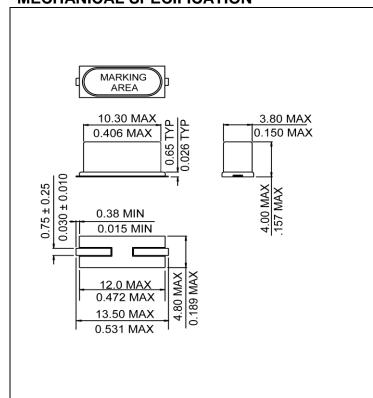
SPECIFICATIONS

PARAMETER	VALUE	
FREQUENCY RANGE	12.000 MHz	
MODE OF OSCILLATION	FUNDAMENTAL	
FREQUENCY TOLERANCE AT 25°C	±30 PPM STANDARD	
FREQUENCY STABILITY OVER TEMPERATURE	±50 PPM STANDARD	
OPERATING TEMPERATURE RANGE	-20°C TO +70°C STANDARD	
STORAGE TEMPERATURE RANGE	-40°C TO +90°C	
AGING	±5 PPM PER YEAR MAXIMUM	
LOAD CAPACITANCE	18 pF	
EQUIVALENT SERIES RESISTANCE	50 Ω	
SHUNT CAPACITANCE	5 pF MAXIMUM	
DRIVE LEVEL	100 μW TYPICAL, 500 μW MAXIMUM	
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM	

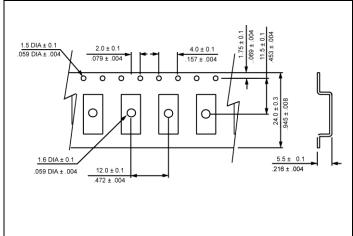


Photo is not actual par

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

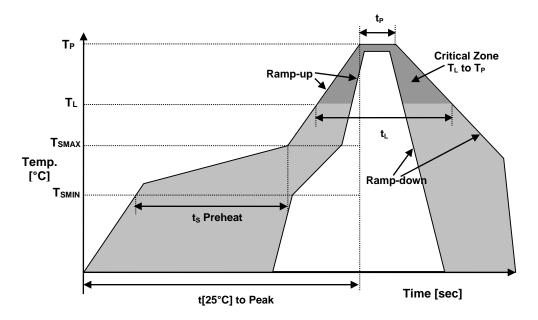
178 mm REEL DIAMETER 24 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 1000 PIECES PER REEL

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	TL	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	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	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVAL

DRAWN BY:	KJackson, August 5, 2014
APPROVED BY:	KJackson, August 5, 2014
REVISION:	A, Initial Release