

LOW PROFILE MICROPROCESSOR CRYSTAL Page 1 of 3

AS-14.7456-18-EXT-SMD-TR

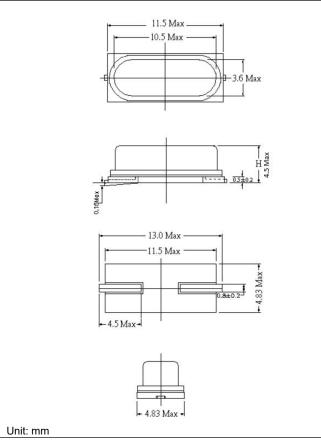
SPECIFICATIONS

PARAMETER	VALUE	
NOMINAL FREQUENCY	14.7456 MHz	
MODE OF OSCILLATION	Fundamental	
FREQUENCY TOLERANCE AT 25°C	±30 ppm max	
FREQUENCY STABILITY OVER TEMPERATURE	±50 ppm max	
OPERATING TEMPERATURE RANGE	-40°C to +85°C	
STORAGE TEMPERATURE RANGE	-55°C to +125°C	
AGING	±5 ppm per year max	
LOAD CAPACITANCE	18 pF	
EQUIVALENT SERIES RESISTANCE	60 Ω max	
SHUNT CAPACITANCE	5 pF max	
DRIVE LEVEL	300 µW max	
REFLOW CONDITIONS	260°C for 10sec max	

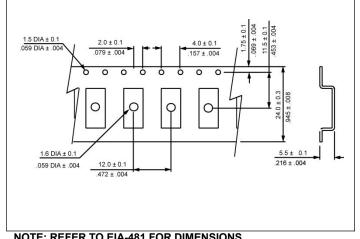


Photo is not actual

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

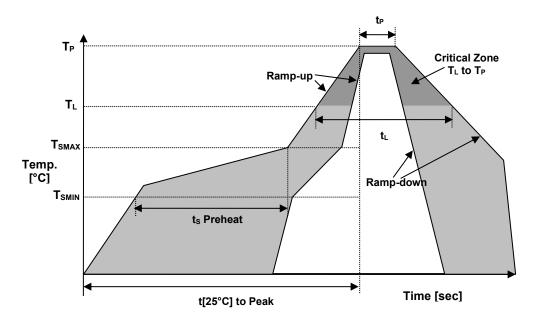
IN ACCORDANCE WITH EIA-481



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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})	ts	60-180 sec.		
Temperature	TL	217°C		
Peak Temperature	TP	260°C		
Ramp-up rate	Rup	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∟	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	Sn





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MARKING

R147xxByw

- x 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	а	19	s	37	K
2	b	20	t	38	L
3	с	21	u	39	М
4	d	22	v	40	Ν
5	е	23	w	41	0
6	f	24	х	42	Р
7	g	25	у	43	Q
8	ĥ	26	Z	44	R
9	i	27	Α	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	Е	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:	XLiu, January 31, 2019
APPROVED BY:	Jlvens, January 31, 2019
REVISION:	A, Initial Release

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