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AS-24.576-20-F-SA-CL

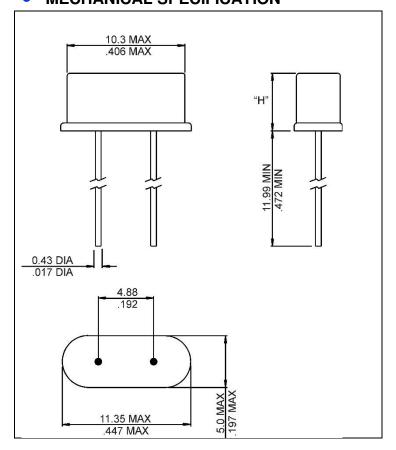
SPECIFICATIONS

A RAMI TECHNOLOGY Company

PARAMETER	VALUE
NOMINAL FREQUENCY	24.576 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±30 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±50 ppm max
OPERATING TEMPERATURE RANGE	-20°C to +70°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±5 ppm per year max
LOAD CAPACITANCE	20 pF
EQUIVALENT SERIES RESISTANCE	30 Ω max
SHUNT CAPACITANCE	7 pF max
DRIVE LEVEL	1mW max
REFLOW CONDITIONS	260°C ±5°C for 10 sec max
CRYSTAL TESTING	Crystals must be 100% electrically tested after lead trimming



MECHANICAL SPECIFICATION



HEIGHT "H" = 3.5 mm

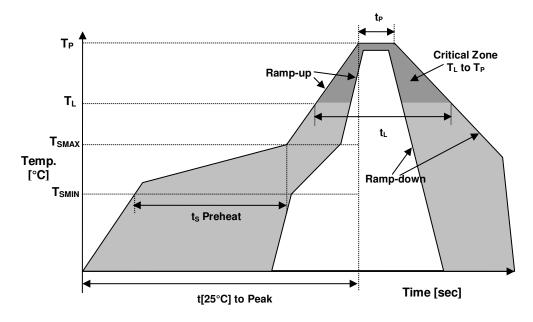
CL: 3.94mm ±0.13mm





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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	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





LOW PROFILE MICROPROCESSOR CRYSTAL

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MARKING

R245xxAyw

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	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	O
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	o	33	G	51	Y
16	p	34	Н	52	Z
17	q	35	I		
18	r	36	J		

APPROVAL

DRAWN BY:	KJackson, March 23, 2017
APPROVED BY:	JIvens, March 23, 2017
REVISION:	A, Initial Release

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