AS-16.000-20-1015

• SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	16.000 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±10 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±15 ppm max
OPERATING TEMPERATURE RANGE	-20°C to +70°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
AGING	±5 ppm per year max
LOAD CAPACITANCE	20 pF
EQUIVALENT SERIES RESISTANCE	40 Ω max
SHUNT CAPACITANCE	6 pF max
DRIVE LEVEL	100 µW typ, 500 µW max
INSULATION RESISTANCE	500 MΩ min @DC 100V
REFLOW CONDITIONS	260°C for 10 sec max

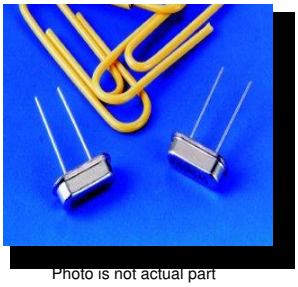
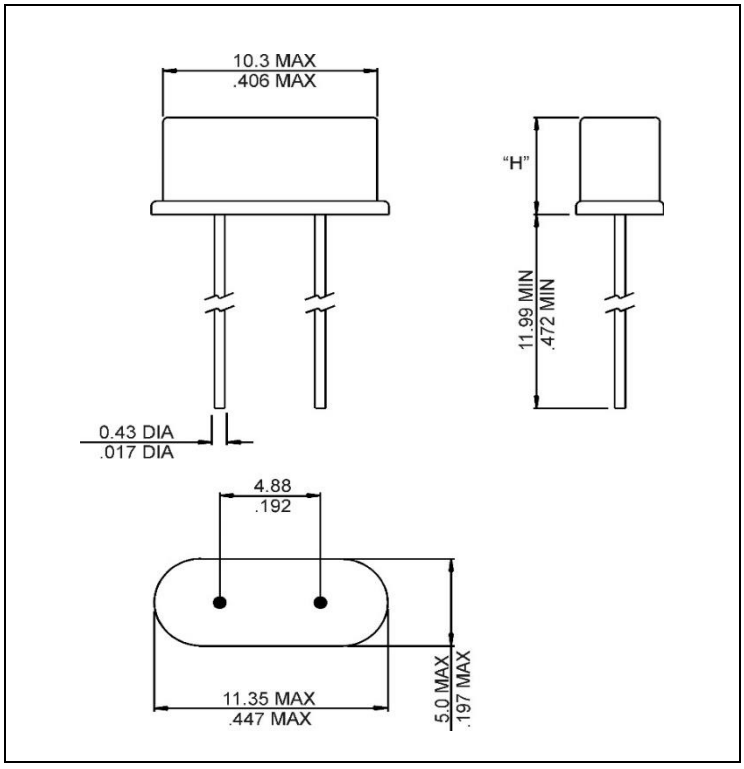


Photo is not actual part

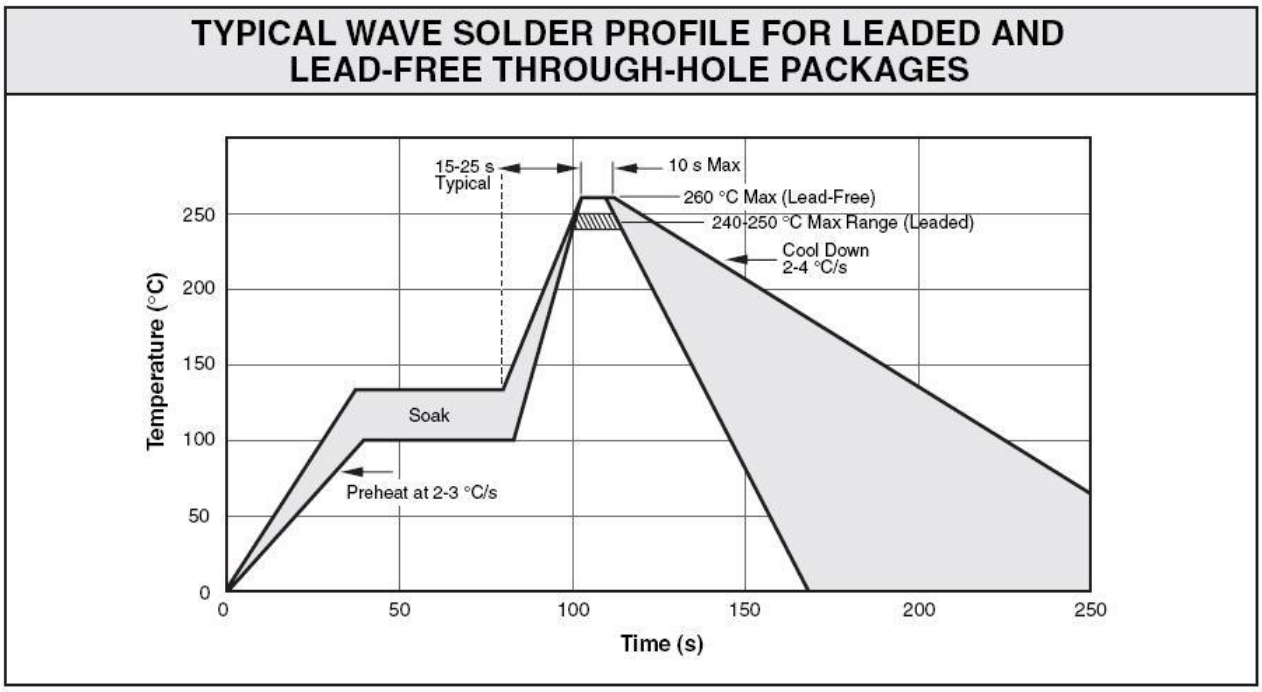
• MECHANICAL SPECIFICATION



H=3.5 mm

RoHS Compliant

REFLOW PROFILE



Wave Solder profile		
Profile Feature	**SnPb eutectic**	**Pb-Free**
Average ramp-up rate	~200°C/second	~200°C/second
Heating Rate during preheat	typical 1-2°/second max 4°/second	typical 1-2°/second max 4°/second
Final preheat temperature, T_S	~130°C	~130°C
Peak temperature, T_P	235°C	260°C
Time within +0°C / -5°C of actual temperature, t_P	10 seconds	10 seconds
Ramp-down rate	5°C/second max.	5°C/second max.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn

• MARKING

R160xAyw

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	B	46	T
11	k	29	C	47	U
12	l	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	H	52	Z
17	q	35	I		
18	r	36	J		

• APPROVAL

DRAWN BY:	Initial Release, August 31, 2012
APPROVED BY:	FP, August 31, 2012
REVISION:	A, Initial Release B, Updated to current spec levels by YLi, May 12, 2020