

AS-16.000-20-30100-EXT1-SMDTN2

SPECIFICATIONS

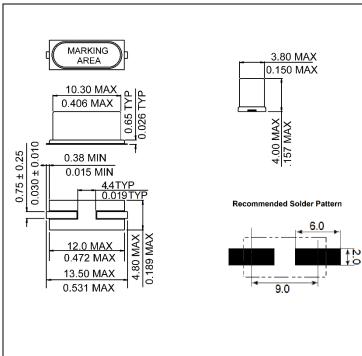
PARAMETER	VALUE	
NOMINAL FREQUENCY	16.000 MHz	
MODE OF OSCILLATION	Fundamental	
FREQUENCY TOLERANCE AT 25°C	±30 ppm max	
FREQUENCY STABILITY OVER TEMPERATURE	±100 ppm max	
OPERATING TEMPERATURE RANGE	-40°C to +125°C	
STORAGE TEMPERATURE RANGE	-40°C to +125°C	
AGING	±3 ppm per year max 🗢	
LOAD CAPACITANCE	20 pF	
EQUIVALENT SERIES RESISTANCE	20 Ω 🗢	
SHUNT CAPACITANCE	5 pF max	
DRIVE LEVEL	100 μW typ, 500 μW max	
DLD TESTING	20 Power Points between 10nW and 200µW (=	
REFLOW CONDITIONS	260°C for 10s max	



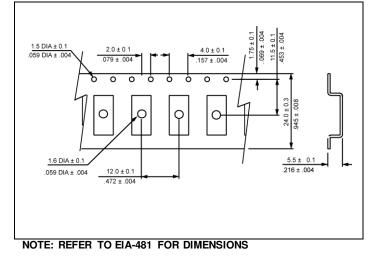
hoto is not actual part

Note: Starting Date December 27, 2021

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



• PACKAGING

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

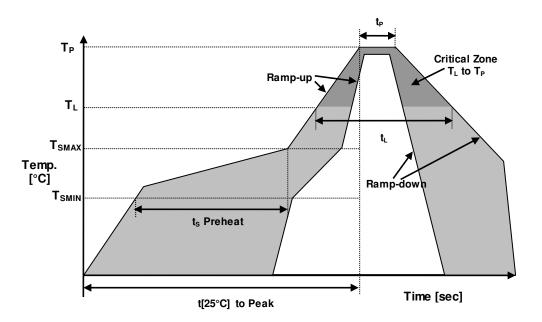
IN ACCORDANCE WITH EIA-481



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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	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	tL	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

R160xxAyw

- x Internal Production ID code
- y-Year code
- $w-Week \, code$

YEAR CODE		
Year	Code	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	
2026	6	
2027	7	
2029	8	
2029	9	

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	e	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	А	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	E	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	ŕ	36	J		

APPROVAL

DRAWN BY:	CP, January 10, 2022
APPROVED BY:	JI, January 10, 2022
REVISION:	A, Initial Release

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