

LOW PROFILE MICROPROCESSOR CRYSTAL

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TT-SMDC-4.9152-18-TR

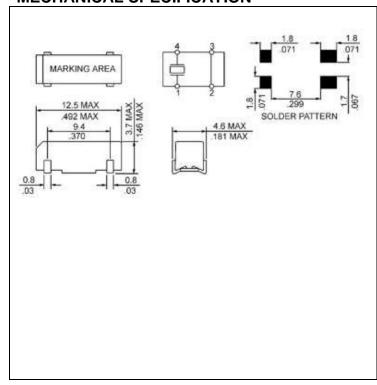
SPECIFICATIONS

PARAMETER	VALUE		
NOMINAL FREQUENCY	4.9152 MHz		
MODE OF OSCILLATION	Fundamental		
FREQUENCY TOLERANCE AT 25°C	±50 ppm max		
FREQUENCY STABILITY OVER TEMPERATURE	±50 ppm max		
OPERATING TEMPERATURE RANGE	-10°C to +60°C		
STORAGE TEMPERATURE RANGE -40°C to +90°C			
AGING	±5 ppm first year max		
LOAD CAPACITANCE	18 pF		
EQUIVALENT SERIES RESISTANCE	150 Ω max		
SHUNT CAPACITANCE 5 pF max			
DRIVE LEVEL	100 μW max		
REFLOW CONDITIONS	260°C for 10 sec max		

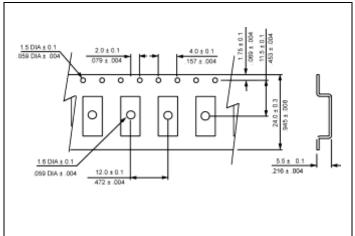


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

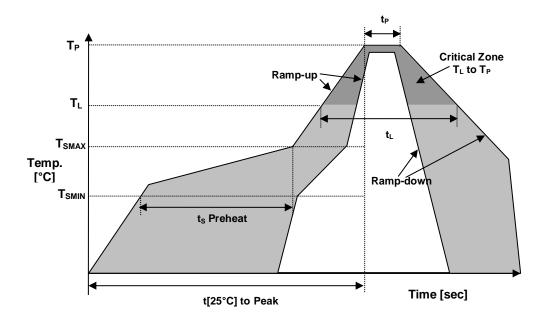
178 mm REEL DIAMETER 24 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 1000 PIECES PER REEL

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₽	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	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn





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MARKING

R049xxByw

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	у	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	В	46	T
11	k	29	С	47	U
12	1	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	0	33	G	51	Y
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		-

APPROVAL

DRAWN BY:	KJackson, Nov. 19, 2015	
APPROVED BY:	KJackson, Nov. 19, 2015	
REVISION:	A, Initial Release	
	Updated to current spec	
	levels KJ 8/13/19	

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