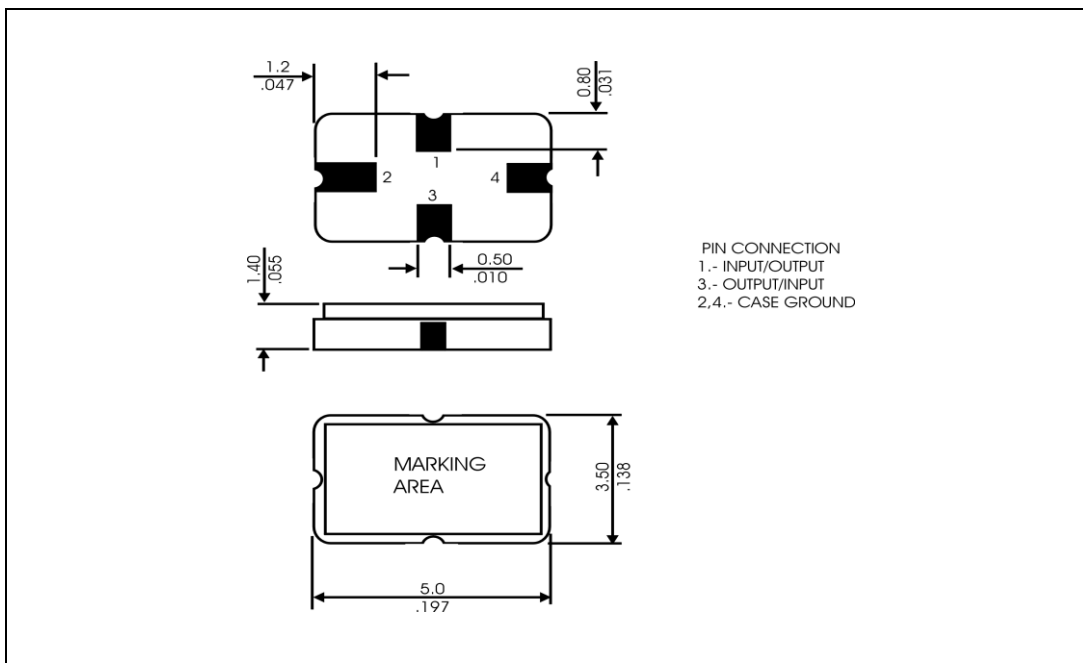


SPECIFICATIONS

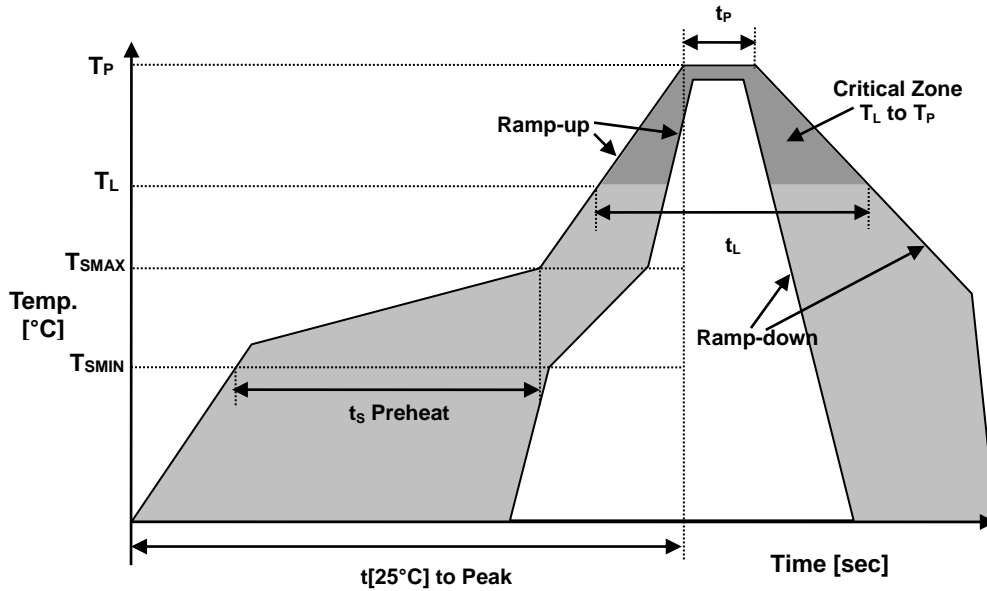
Parameter	Specification	Unit
Center frequency (fo)	868.950 ± 0.075	MHz
Insertion Loss, typ/max	1.2 / 2.0	dB
Quality Factor Unloaded, min/typ	5000 / 10000	-
Quality Factor 50 Ω Loaded, min/typ	500 / 1500	-
Turnover Temperature	25 ± 15	°C
Frequency Temperature Coefficient, typ	-0.037	ppm/°C ²
Frequency Aging, max	±10	ppm/year
Insulation Resistance (DC), min	1.0	MΩ
Transducer Static Capacitance, typ/max	1.8 / 2.5	pF
Motional Resistance R ₁ , typ/max	23 / 30	Ω
Motional Inductance L ₁ , typ	20.78	μH
Motional Capacitance C ₁ , typ	1.618	fF
DC Voltage, max	30	V
AC Voltage V _{pp} , 50/60Hz	10	V
RF Power Dissipation	5	dBm
Operating Temperature Range	-40 ~ +85	°C
Storage Temperature Range	-40 ~ +85	°C

MECHANICAL SPECIFICATION



ELECTRICAL CHARACTERISTICS

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 $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	t_L	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
RoHS	COMPLIANT
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



APPROVAL

RALTRON	
DRAWN BY	LP, March 08, 2017
APPROVED BY	JL, March 08, 2017
REVISION	A, Initial Release

Raltron Electronics / RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided only for reference purposes only and is subject to change, correction or revision, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.

Copyright © 2016, Raltron Electronics / RAMI Technology USA, LLC. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Raltron Electronics / RAMI Technology USA, LLC.