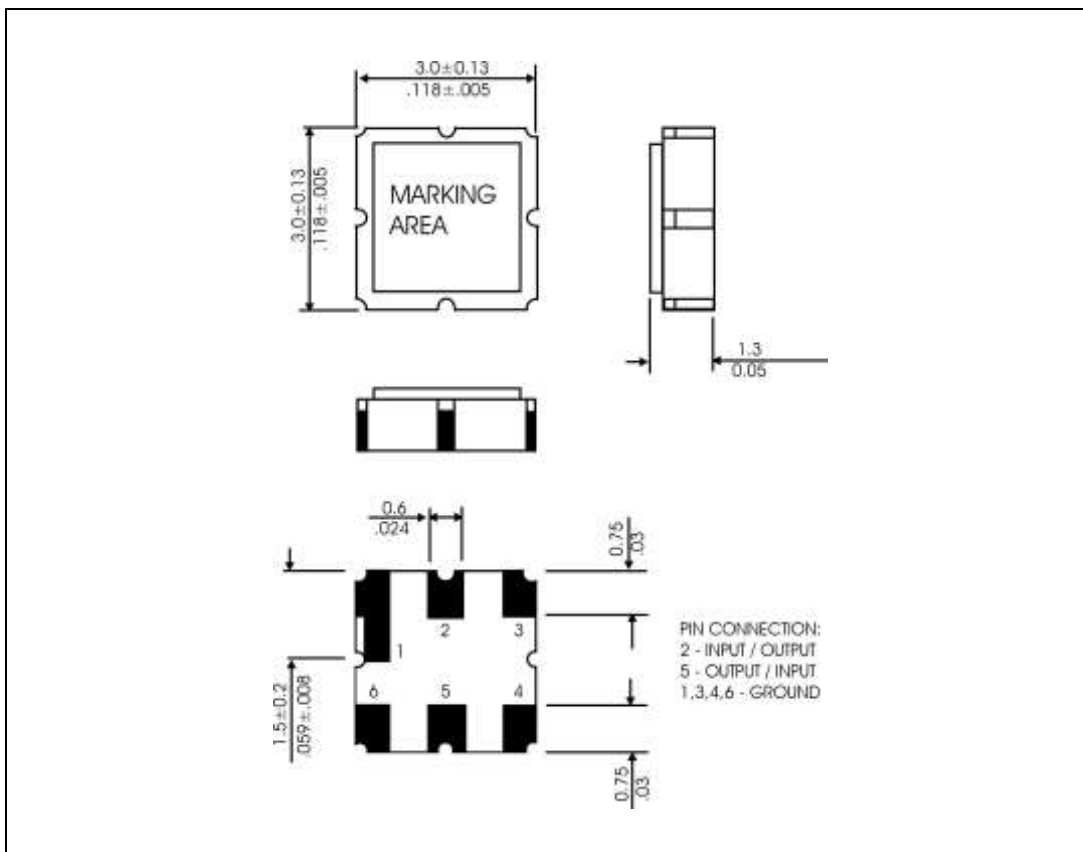


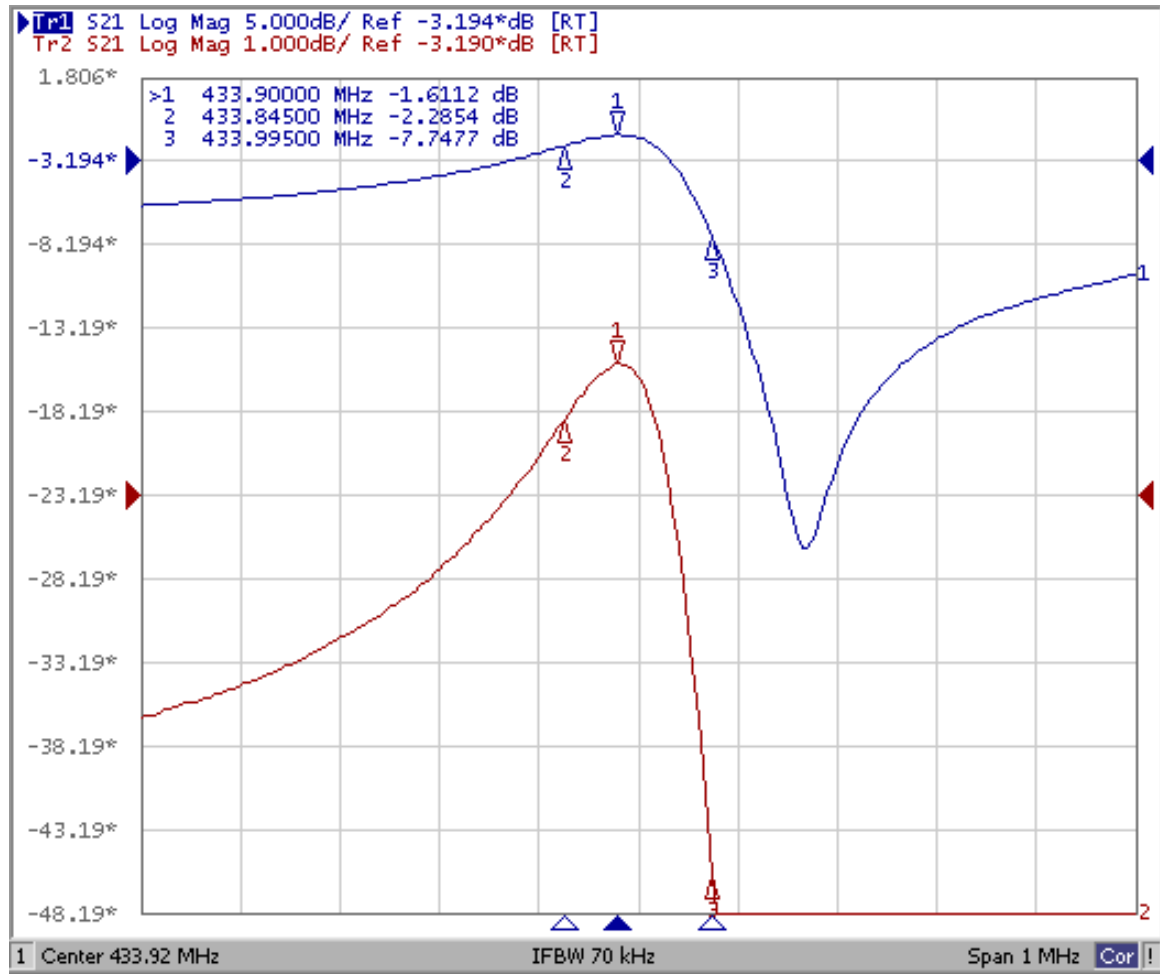
**ELECTRICAL SPECIFICATIONS**

Parameter	Specification	Unit
Center frequency (fo)	433.920 ±0.075	MHz
Insertion Loss,typ/max	1.4 / 1.9	dB
Quality Factor Unloaded, min/typ	8,000 / 12,000	-
Quality Factor 50 Ω Loaded, min/typ	850 / 1,500	-
Turnover Temperature	10 ~ 40	°C
Frequency Temperature Coefficient, Typ	-0.032	ppm/°C <sup>2</sup>
Frequency Aging, Max	±10	ppm/year
Insulation Resistance (DC), Min	1.0	MΩ
Motional Resistance, typ/max	18 / 26	Ω
Motional Inductance, Typ	79.82	μH
Motional Capacitance, Typ	1.685	fF
Transducer Static Capacitance	2.3	pF
DC Voltage, Max	10	V
AC Voltage V <sub>pp</sub> , 50/60Hz	10	V
Source Power, Max	10	dBm
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-45 to +85	°C

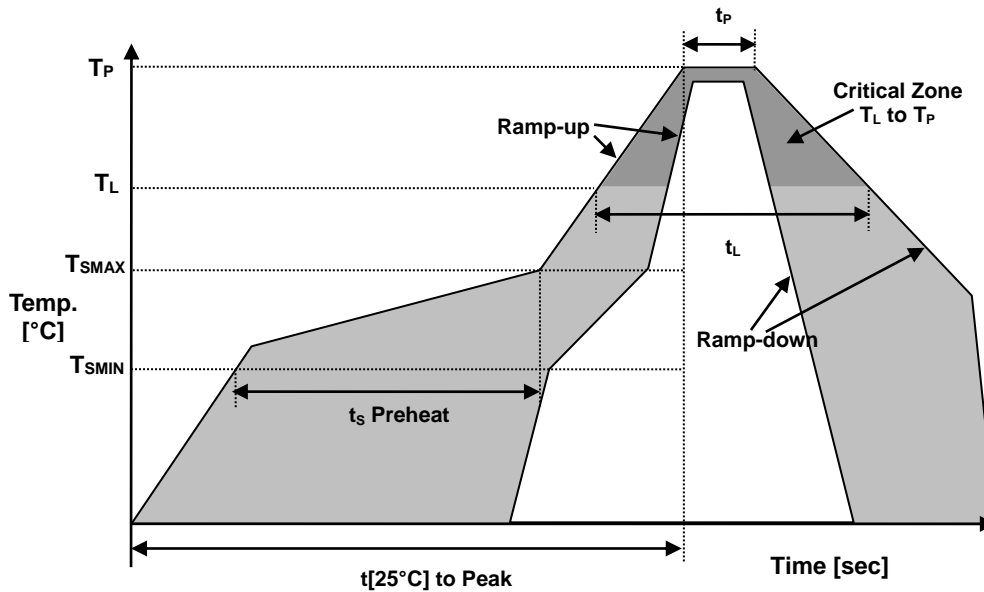
**MECHANICAL SPECIFICATION**



■ 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	$T_P$	245°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
MOISTURE SENSITIVITY LEVEL	1
RoHS-2	6/6 COMPLIANT & LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	Class 1
TERMINATION FINISH	Au



### APPROVAL

RALTRON	
DRAWN BY	LP, June 14, 2016
APPROVED BY	CP, June 14, 2016
REVISION	A Initial release