

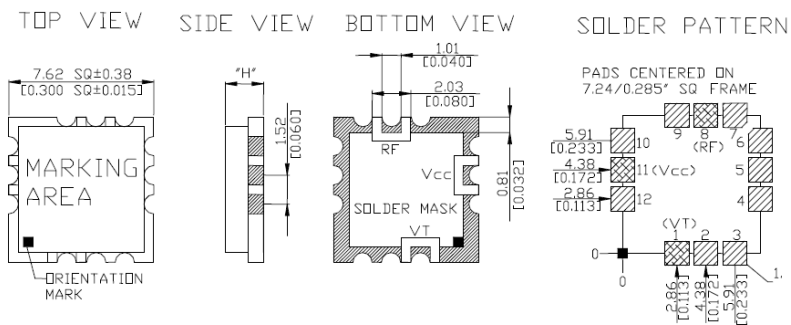
ELECTRICAL SPECIFICATIONS

PARAMETER	CONDITION	SYMBOL	VALUE			UNIT
			Min.	Typ.	Max.	
Frequency Range	Vt=0.5 V	fo(Vt)			2400	MHz
	Vt=3.0		2500			
Power Supply Voltage		Vcc	2.85	3.0	3.15	V
Tuning Voltage		Vt	0		3.0	V
Supply Current	Vcc=3.0V ±5%	Icc		19		mA
Tuning Sensitivity	Vt=0 ~ 3V Vcc=3.0V ±5% T=25°C	df/dVt		55		MHz/V
Tuning Port Capacitance	Vt=0~3V				22	pF
Pushing	Vcc=2.85 – 3.15	df/dVcc			5	MHz/V
Pulling		df/dZL			17	MHz-pk-pk
Operating Temperature Range		Ta	-40		+85	°C
Storage Temperature Range		Tstor	-45		+90	°C
Moisture Sensitivity Level	MSL	JEDEC J-STD-2	1			
Termination; Finish			Glass-reinforced laminate base and nickel-silver cover			

OUTPUT CHARACTERISTICS

SINE-WAVE	PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
				Min	Typ.	Max	
	Output Power	Pw	Output termination 50Ω Vcc=3.0V ±5%	0	+3	+6	dBm
	Harmonic Suppression	h ²			-20		dBc
	Output Load	O _{CL}		50			Ω

MECHANICAL DIMENSIONS AND PIN FUNCTIONING

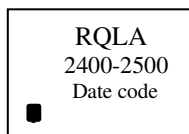


COMMENTS

PAD	FUNCTIONS
1	TUNING VOLTAGE
8	RF-OUTPUT
11	SUPPLY VOLTAGE
OTHER PADS ARE GROUND	

H – Height = 2.0 ±0.2 mm

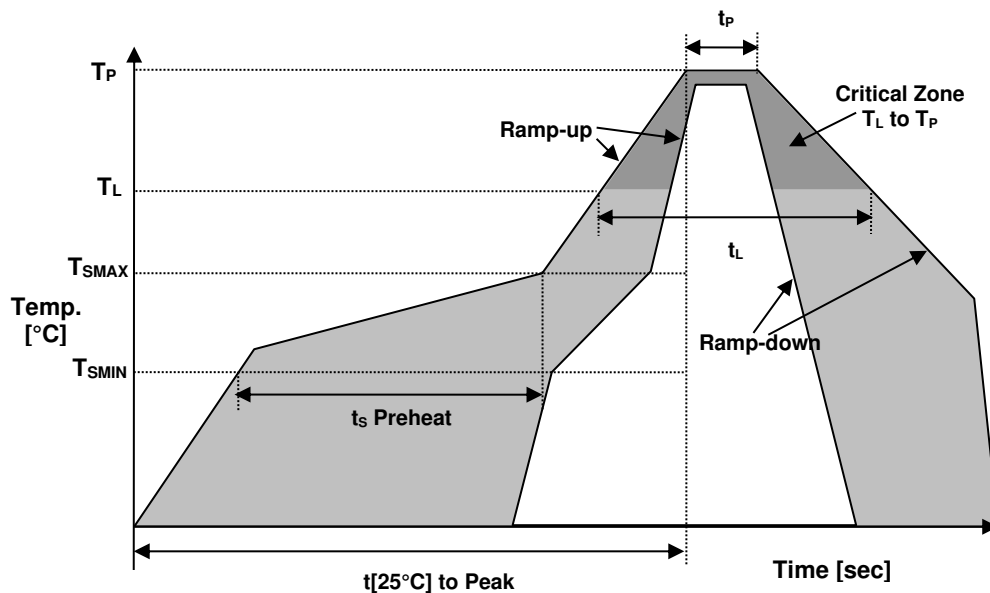
■ Marking:



PHASE NOISE

PARAMETER	SYMBOL	CONDITION	VALUE			UNIT
			Min	Typ	Max	
SSB Phase noise	$\Sigma(\Delta f)$	$\Delta f=10\text{kHz}$		-96		dBc
		$\Delta f=100\text{ kHz}$		-116		

REFLOW PROFILE



Recommended Solder Reflow Profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	175°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	10-20 sec max.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	t_L	60-150 sec.

APPROVALS

Eng. approval, date: CP 05/03/2021

Created by, date: AR 05/03/2021

Revision: A

