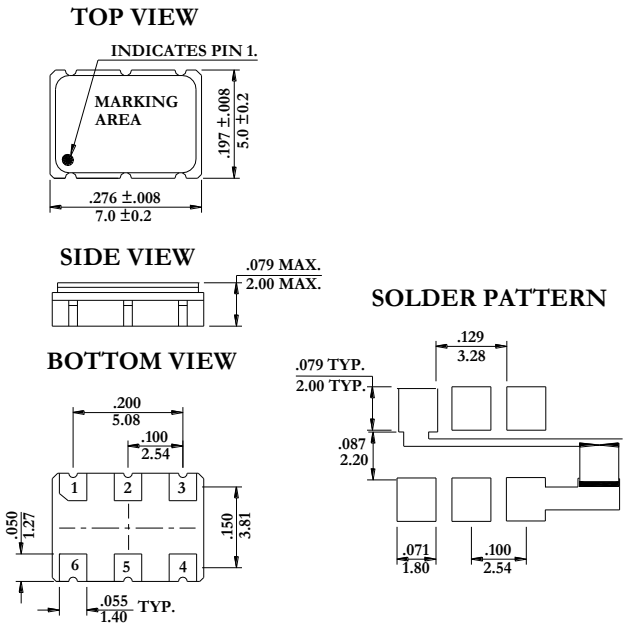
FT92S-LZ-25M000

■ APPROVALS

RUBY QUARTZ	
Created by, date: MH	01/27/11
Eng. approval, date: IM	01/27/11
Revision: A	

■ MECHANICAL SPECIFICATION



OUTLINE TOLERANCE:
±0.015" / 0.4mm
(Unless otherwise specified)

PIN FUNCTIONS:
[1] FRQ. INPUT
[2] FRQ. SELECTION
[3] GND
[4] FRQ. OUTPUT
[5] N/C
[6] Vcc

MARKING:
FT92S-LZ
25M000
Qyyxxww

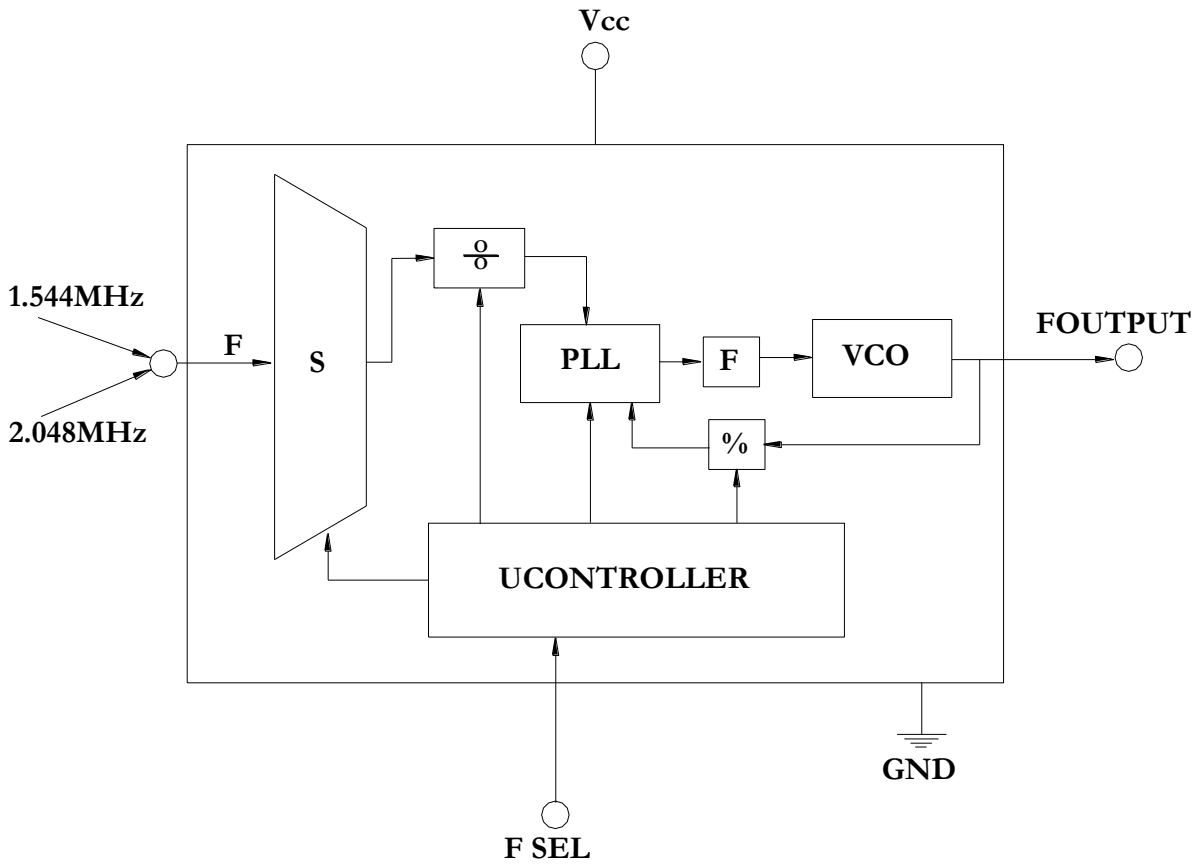
■ ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency Input	F		1.544 / 2.048	MHz
Frequency output	Fo		25.0	MHz
Supply voltage, nom.	Vcc	Vcc±5%	3.3	V
Supply current, max.	Is	Vcc±5%, 25°c	30	mA
LVCMOS output	VOH VOL	Load= 15pF	0.9Vcc 0.1Vcc	V
Duty cycle	DC		40…60	%
Rise- / fall time, max.	tr / tf	20%~80% Vout, 80%~20% Vout, max	4	ns
Input Level min/max	VINPUT	--	0.5/3.3	Vpk-pk
Period jitter pk-pk	Jt-pk	(10.000 samples measured)	80	ps
Operating temperature range	Ta		0 to 70	°C
Storage Temperature	Ts		-55/125	°C
Supply Voltage Maximum	Vmax	Tta=25°C,LOAD 15pF	6	V

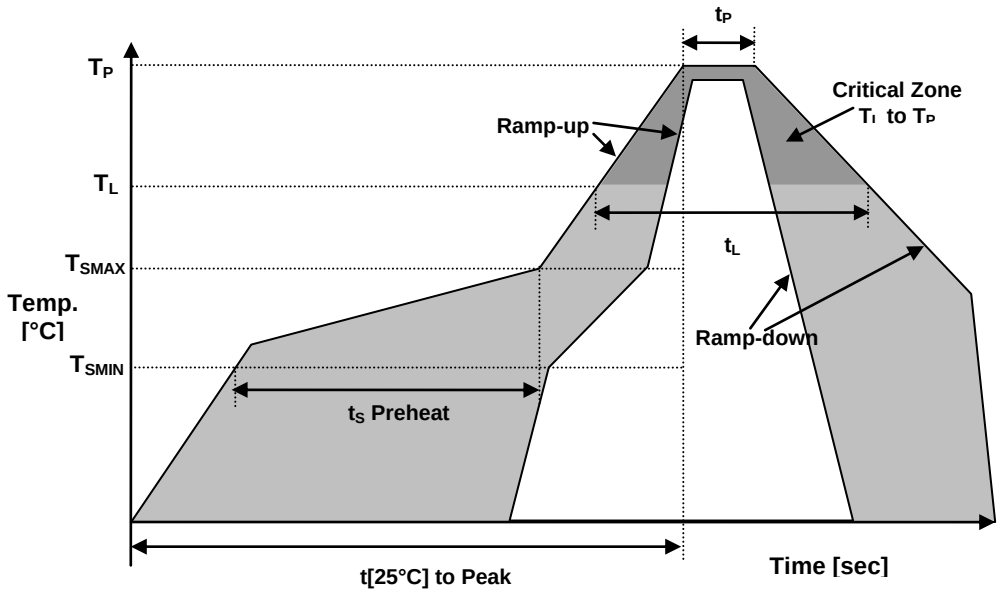
■ **FREQUENCY SELECTION TABLE**

FSEL	INPUT FREQUENCY
0	1.544MHz
1	2.048MHZ

■ **FUNTIONAL BLOCK DIAGRAM**



■ **REFLOW PROFILE**



Reflow profile IPC/JEDEC J-STD-020 REV. C		
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	20-40 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t_L	60-150 sec.