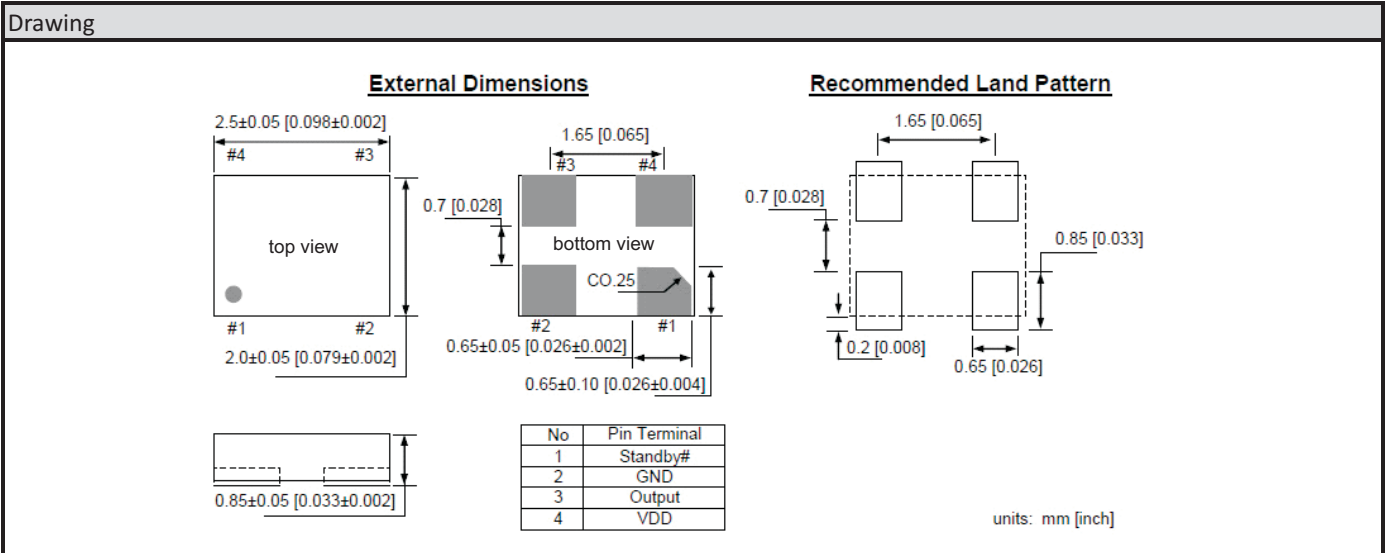


APMO2520

Features:

- cost effective
- ultra miniature size
- shock and vibration resistant

Specifications						
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Frequency	f_0	Single frequency	1		150	MHz
Frequency Tolerance	Δf	Includes frequency variations due to initial tolerance, temperature and power supply voltage			$\pm 10, \pm 25, \pm 50$	ppm
Aging	Δf	1 year @25°C				ppm
Supply Current, standby	I_{DD}	T=25°C			15	uA
Output Logic Levels						
Output logic high	V_{OH}	-4mA	$0.8 * V_{DD}$			
Output logic low	V_{OL}	4mA			$0.2 * V_{DD}$	volts
Output Startup Time2	t_{SU}	T=25°C		1.0	1.3	ms
Output Disable Time	t_{DA}			20	100	ns
Output Duty Cycle	SYM		45		55	%
Input Logic Levels						
Input logic high	V_{IH}		$0.75 * V_{DD}$			volts
Input logic low	V_{IL}				$0.25 * V_{DD}$	



VDD = 1.8V

APMO2520

Parameter	Symbol	Condition		Min	Typ	Max	Unit
Supply Current, no load	I_{DD}	$C_L=0p$	1MHz		6.0	6.3	mA
		$R_L=?$	27MHz		6.5	6.9	
		$T=25^{\circ}C$	70MHz		7.2	7.5	
			150MHz		8.3	9.1	
Output Transition time							
Rise Time	t_R	$C_L=15pF; T=25^{\circ}C$			1.8	3.0	ns
Fall Time	t_F	20%/80%* V_{DD}			1.0	3.0	
Jitter, Max Cycle to Cycle	J_{CC}	$F = 100MHz^3$			60.0		ps

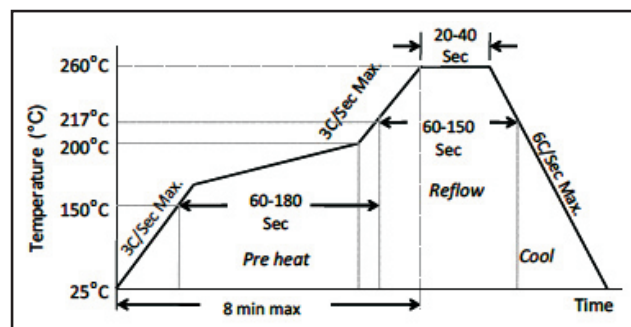
VDD = 2.5V

Parameter	Symbol	Condition		Min	Typ	Max	Unit
Supply Current, no load	I_{DD}	$C_L=0p$	1MHz		6.0	6.3	mA
		$R_L=?$	27MHz		6.7	7.0	
		$T=25^{\circ}C$	70MHz		7.7	8.1	
			150MHz		9.6	10.6	
Output Transition time							
Rise Time	t_R	$C_L=15pF; T=25^{\circ}C$			1.0	2.0	ns
Fall Time	t_F	20%/80%* V_{DD}			0.9	2.0	
Jitter, Max Cycle to Cycle	J_{CC}	$F = 100MHz^3$			50.0		ps

VDD = 3.3V

Parameter	Symbol	Condition		Min	Typ	Max	Unit
Supply Current, no load	I_{DD}	$C_L=0p$	1MHz		6.0	6.3	mA
		$R_L=?$	27MHz		6.8	7.2	
		$T=25^{\circ}C$	70MHz		8.2	8.7	
			150MHz		10.8	12.2	
Output Transition time							
Rise Time	t_R	$C_L=15pF; T=25^{\circ}C$			1.0	2.0	ns
Fall Time	t_F	20%/80%* V_{DD}			0.9	2.0	
Jitter, Max Cycle to Cycle	J_{CC}	$F = 100MHz^3$			50.0		ps

Solder Reflow Profile



Order key								
O	- 10.000000M	- APMO2520	- 50	- 3.3	- A	-	/	T
Part	Frequency	Type	Tolerance	Voltage	Temperature	Load	Option	Packaging
O=Oscillator	M=MHz	APMO=Programmable Quartz Oscillator	±ppm	3.3=3.3Volt 2.5=2.5Volt 1.8=1.8Volt	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C	blank = 15pF	T=Tristate	Tube
		APMO 2520=SMD 2.5x2.0						