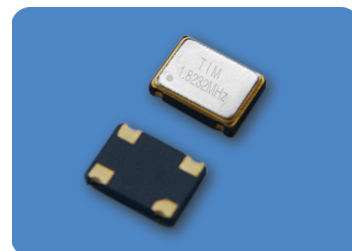




CMOS/TTL SMD CRYSTAL CLOCK OSCILLATOR 3.2×2.5(SMD3225)

FEATURES

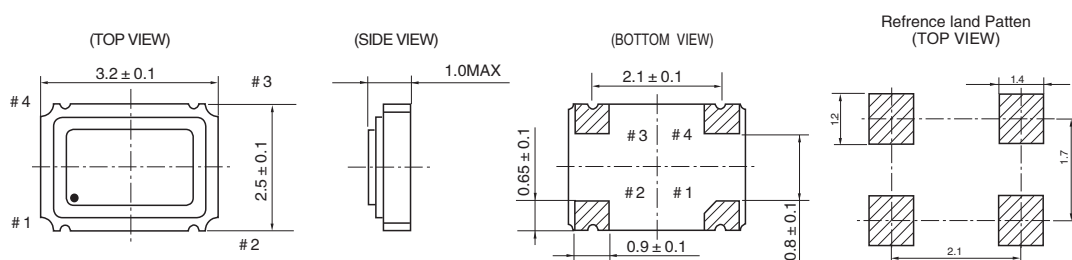
- Ultra-miniature package
- Reflow soldering
- CMOS IC circuit construction built-in with tristate function
- CMOS/TTL compatible in general application
- SPECIFICATIONS



SPECIFICATIONS

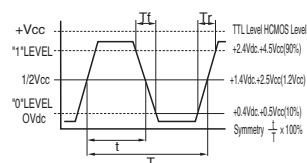
ITEM		DESCRIPTION
Frequency range		32.768KHz~200.000MHz
Mode		TTL、CMOS or CMOS/TTL COMPATIBLE
Supply Voltage(VDD)		5.0V DC $\pm 10\%$ 、3.3V DC $\pm 10\%$ 、2.5V DC $\pm 10\%$ 、1.8V DC $\pm 10\%$
Supply Current		$\leq 30\text{MHz}$ 30mA Max, $> 30\text{MHz}$ 45mA Max
Operating Temperature Range		0°C~+70°C、-20°C~+70°C、-40°C~+85°C or specify
Frequency Stability Over Operating Temp Characteristics		$\pm 30\text{ppm(STD)}$ 、 $\pm 5\text{ppm}$ ~ $\pm 50\text{ppm}$ or specify
Storage Temperature Range		-55°C ~ +125°C
Output Character	"0"Level (Vol Max)	10%VDD MAX
	"1"Level (Voh Min)	90%VDD MIN
	Rise Time (Tr)	10%~90%VDD 10ns Max
	Fall Time (Tf)	90%~10%VDD 10ns Max
	Symmetry	40%~60% or 45%~55% Option (at 50%VDD)
	Output Load	15pf、30pf、50pf Max or specify
Start Up Time		7~10ms Max
Aging (25°C $\pm 3^\circ\text{C}$)		$\pm 3\text{ppm/year}$
E/D Control		#1PIN N/C or TRI-STATE

OUTLINE DIMENSIONS (mm)

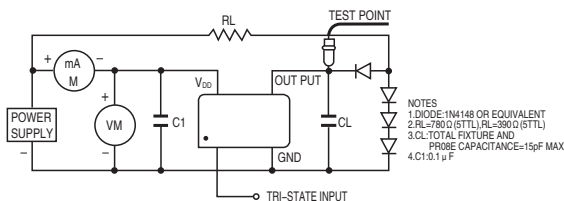


PAD NO.	CONNECTION
#1	N/C or TRI-STATE
#2	GND
#3	Output
#4	VDD

OUTPUT WAVEFORM



TEST CIRCUIT



NOTES
1. DIODE: 1N4148 OR EQUIVALENT
2. RL: 750Ω (STTL) RL: 350Ω (STTL)
3. CL: TOTAL CAPACITANCE=15pF MAX
4. C1: 0.1 μF

PART NUMBER

TIM-	XOS3225	A	16.000000	± 30	-20°C~+70°C	5.0	N
Type	Molde Type	Frequency(MHz)	Frequency(MHz)	operating	Supply voltage(v)	E/D Control	
	A:CMOS/TTL	16.000000:	stability	temperature	5.0:5.0V DC	Y:TRI-STATE	
	B:CMOS	16.000000MHz	(ppm)	range	3.3:3.3V DC	N:N/C Control	
	C:TTL		$\pm 30: \pm 30\text{ppm}$		2.5:2.5V DC		