

FEATURES

- * 3x5 mm footprint
- * SMD
- * 3 & 5V versions
- * Seam welded package
- * Tape and Reel (1,000 pcs)

The ISO-5X3.2 is our smallest crystal controlled low-current clock oscillator. This subminiature, very low profile leadless ceramic package is ideal for today's SMD manufacturing environment. Package is seam welded with a metal lid.



OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	MHz	1.0MHz~156MHz				
FREQUENCY STABILITY	PPm	A: ±50 B: ±25				
OPERATING TEMP	°C	0~+70, -40~+85				
STORAGE TEMP	°C	-55~+125				
POWER SUPPLY VOLTAGE	VDC	+1.8±5%	±2.5±5%	+3.3±10%	+5.0±10%	+5.0±10%
OUTPUT LEVEL		CMOS			TTL	
OUTPUT SYMMETRY	%*	45~55(50% VDD)			40~60(at 1.4V DC)	
INPUT CURRENT						
0.5~9.99MHz		5	6	7	10	15
10~19.99MHz		6	8	7	15	20
20~31.99MHz	mA	6	8	12	25	30
32~49.99MHz	(Max.)	15	20	20	35	40
50~79.99MHz		15	20	25	50	50
80~99.99MHz		20	25	30	60	60
100~156MHz		25	30	40	80	80
RISE/FALL TIME						
0.5~31.99MHz		5	5	10	10	10
32~49.99MHz		5	5	10	6	5
50~79.99MHz	nS	4	4	8	5	5
80~99.99MHz	(Max.)	3	3	5	5	5
100~156MHz		3	3	4	4	4
OUTPUTLOAD		15pF				10TTL
AGING	PPm	±3				

PACKAGE DIMENSIONS (mm)

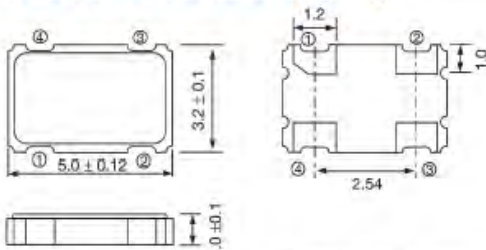


Figure 1) ISO-5X3.2 Top, Side and Bottom views

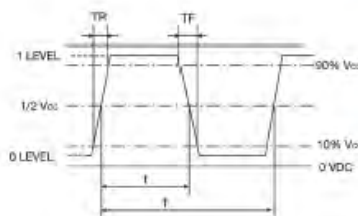


Figure 2) Output Waveform

ISO-5X3.2(5V) Standby Control Voltage	
PIN#1=OPEN ***	#3 = OUTPUT
PIN#1=+3.5V MIN	#3 = OUTPUT
PIN#1=1.5V MAX	#3=NO OSCILLATION

ISO-5X3.2(3V) Standby Control Voltage	
PIN#1=OPEN ***	#3 = OUTPUT
PIN#1=+2.1V MIN	#3 = OUTPUT
PIN#1=0.9V MAX	#3=NO OSCILLATION

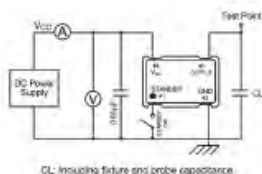


Figure 3) Test Circuit

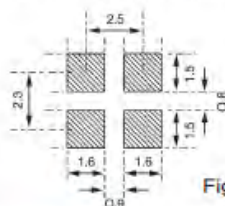


Figure 4) Land Pattern

PIN CONNECTIONS	
#1	TRI-STATE***
#2	GND
#3	OUTPUT
#4	VCC