

Features and Benefits

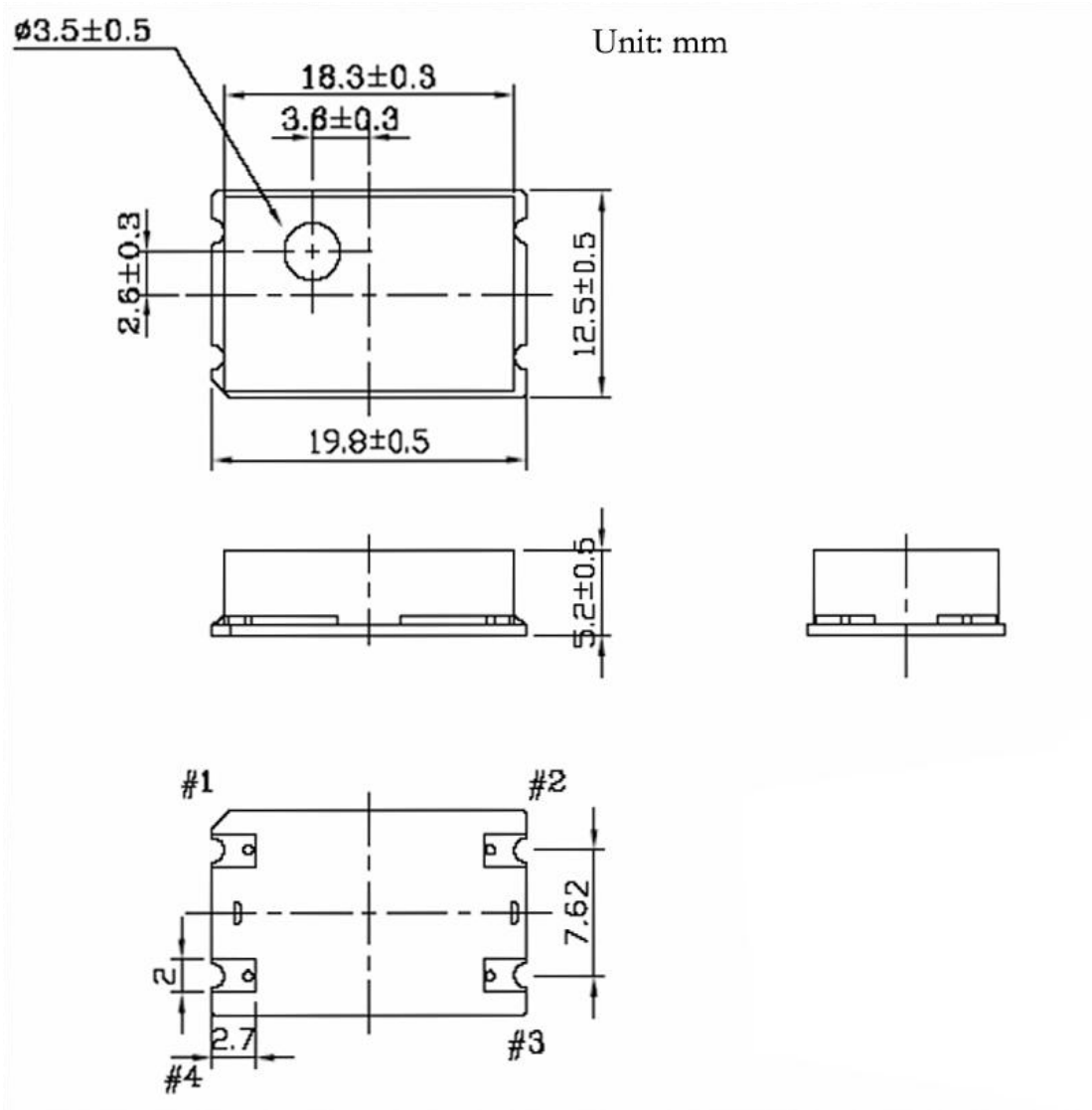
Wide electronic tuning range of +/-55PPM
 Mechanical tuning of +/-5PPM via trimmer access
 HCMOS output
 5V supply

Typical Applications

Telecommunications Gear Reference Oscillator
 Wide Tuning Voltage Controlled Oscillator For PLL Circuit

Mechanical Drawing & Pin Connections

Drawing No: MD150011-1



Pin Connection	
#1	V.C or N.C
#2	GND
#3	OUTPUT
#4	Vcc

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Nominal Frequency	F _{nom}			12.8		MHz	
Output Wave Form			HCMOS				
Tr/Tf					10	ns	
Output Load				15		pF	
Duty Cycle				45	55	%	
Power Supply							
Supply Voltage	V _{cc}		4.75	5.0	5.25	V	
Supply Current		At maximum supply voltage			10	mA	
Frequency Control*							
Control Voltage Range	V _c		0.5	2.5	4.5	V	Positive
Frequency Deviation			+/-55.0			ppm	
Frequency Adjustment		Internal trimmer	+/-5.0			ppm	
Linearity					10.0	%	
Frequency Stability							
VS. Temperature		From -10°C to +70°C			+/-2.0	ppm	
Tolerance At 25°C		Frequency @25°C, +2.5V; 24hours after reflow			+/-1.0	ppm	
VS. Supply Voltage		Supply voltage varied +/-5% at 25°C			+/-0.2	ppm	
VS. Load Change		+/-10% load change			+/-0.3	ppm	
First Year Aging		First year at 25°C			+/-0.5	ppm	
Environmental Conditions							
Parameter	Reference Std.			Test Condition			
Operating temperature range	-10°C to +70°C						
Storage temperature range	-40°C to +85°C						