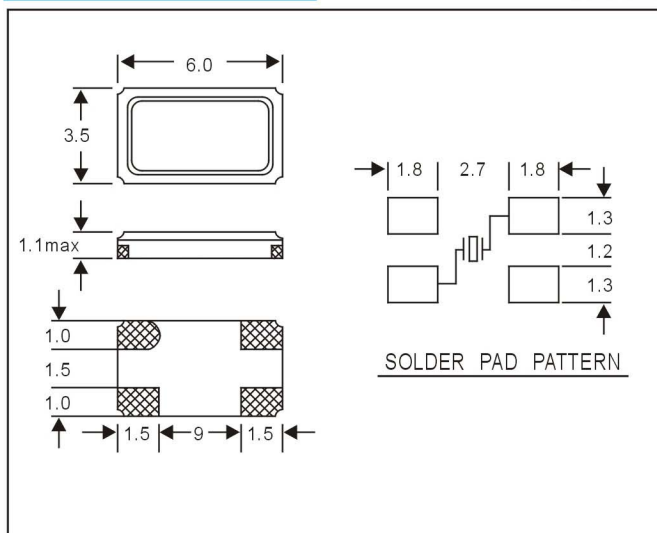


## Series SMD6035



### External dimensions

Unit: mm



Item	Specification	Remarks
Nominal Frequency Range	12.000MHz to 30.000MHz	Fundamental Mode
	33.000MHz to 80.000MHz	Overtone Mode
Frequency Tolerance	±30PPM(Standard) at 25°C±3°C	Others are offered
Load Capacitance	Fund:10pF to ∞, O.T.:5pF to ∞	Please specify
Series resistance	As ESR Table	
Shunt Capacitance	7pF Max	
Drive Level	10 μ W to 100 μ W	1000 μ W Max
Operating Temperature Range	-10°C to +70°C (Standard)	Others are offered
Storage Temperature Range	-55°C to +125°C	
Stability Over Temperature Range	±30PPM(Standard)	Others are offered
Insulated Resistance	500M Ω	Minimum at 100Vdc
Aging	±3PPM/Year	Maximum

### Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
12~16	Fund.	80	30~40	3 <sup>rd</sup> OT	90
16~30	Fund.	50	40~80	3 <sup>rd</sup> OT	90

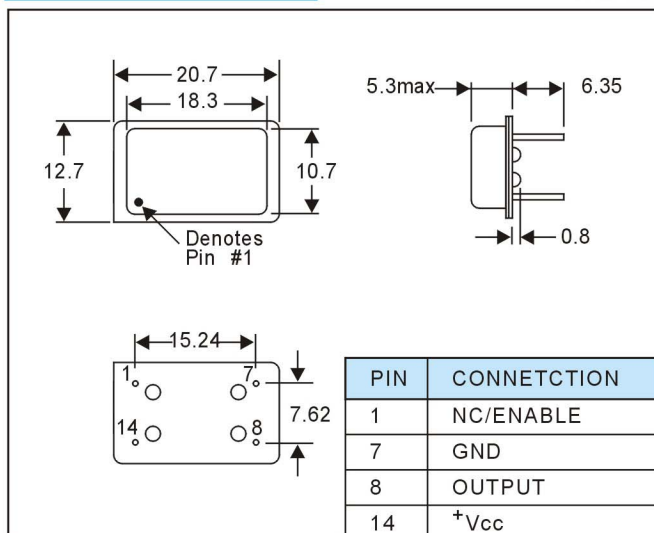
Remark:  
All specifications subject to change without notice.

## Series Clock Oscillator-Full



### External dimensions

Unit: mm



Item	Specification	Remarks
Series	COF145T5    COF145C5    COF145C3	NC/Enable Function
Nominal Frequency Range	1.000MHz to 150.000MHz	
Frequency Stability <sup>2</sup>	±50PPM or ±100PPM	
Operating Temperature Range	0°C to +70°C (Standard)	(Optional) -40°C to +85°C
Storage Temperature Range	-55°C to +125°C	
Input	Voltage: V <sub>DD</sub>	+5VDC ±10%    +5VDC ±10% +3.3VDC ±10%
	Current: I <sub>DD</sub>	1.000MHz to 3.000MHz, ≤20mA
		3.001MHz to 32.000MHz, ≤35mA ≥32.000MHz, ≤45mA
Output Symmetry	46-60% @ 1.4V <sub>DC</sub> 46-60% @ 0.5V <sub>DC</sub>	(Optional) 45-55%
Rise Time	≤8ns	
Full Time	≤8ns	
Output Voltage	V <sub>OL</sub>	0.4V <sub>DC</sub> Max    0.1V <sub>DC</sub> Max
	V <sub>OH</sub>	2.4V <sub>DC</sub> Min    0.9V <sub>DC</sub> Min
Output Current	I <sub>OL</sub>	16mA Max, <25MHz    8mA Max    4mA Max
	I <sub>OH</sub>	-0.4mA Min    -8mA Min    -4mA Min
Start Up Time	<10ns	
Output Waveform <sup>3</sup>	CMOS/15pF or TTL/LSTTL    CMOS/15pF	(Optional) Compatible

Remark:  
1. All specifications subject to change without notice.  
2. Frequency stability included 25°C tolerance, tolerance over the operating temperature range, input voltage change, load change and 5 years aging.  
3. Output loads also available at 30pF and 50pF.